2002

Undergraduate catalog (Florida International University). [2002-2003]

Florida International University

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Florida International University
Member of the State University System
Miami, Florida

2002 – 2003 Undergraduate Catalog

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FIU and Florida International University are registered marks. Florida International University believes in equal opportunity practices which conform to all laws against discrimination and is committed to nondiscrimination with respect to race, color, creed, age, handicap, sex, marital status, or national origin. Additionally, the University is committed to the principle of taking the positive steps necessary, to achieve the equalization of educational and employment opportunities.

Note: The programs, policies, requirements, and regulations published in this catalog are continually subject to review in order to serve the needs of the University’s various publics and to respond to the mandates of the FIU Board of Trustees and the Florida Legislature. Changes in programs, policies, requirements, and regulations may be made without advance notice. The programs and courses listed in this catalog are still under review to meet the state mandated course leveling requirements of SB 2330. For additional information, please contact the academic department. This document was produced at an annual cost of $68,684 to $0.443 per copy to inform the public about University Programs. Fees given in this catalog are tentative pending legislative action.
ACADEMIC CALENDAR 2002-2003

Fall Semester 2002  (August 28 – December 4; Final Exams December 7 – December 13)

May 13  Undergraduate Studies Advising for Fall 2002 term resumes.
June 3  First day to apply for Fall 2002 term graduation.
July 1 - 2  Freshman Orientation (University Park).
July 8 - 9  Freshman Orientation (University Park).
July 11  Transfer Orientation (University Park & Biscayne Bay Campus).
July 15 - 16  Freshman Orientation (University Park).
July 16 - 17  Freshman Orientation (Biscayne Bay Campus).
July 17  Transfer Orientation (University Park).
July 22 - 23  Freshman Orientation (University Park).
July 26  Transfer Orientation (University Park).
July 31 & Aug. 1  Freshman Orientation (University Park & Biscayne Bay Campus).
August 6 - 7  Freshman Orientation (Biscayne Bay Campus).
August 8  Transfer Orientation (Biscayne Bay Campus).
August 8  Freshman Orientation (University Park).
August 15 - 16  Registration Information and Access Codes available for Fall 2002 term.
August 29 – Aug. 2  Official Registration Week (Degree-Seeking Students) only by appointment time and day.
August 5 - 9  Open Registration All Students. Phone and Web & Kiosk Registration Continuous.
August 12 - 21  Short Term Tuition Loan Applications available.
August 21  Last day (by 7 p.m.) for students to apply for a Short Term Tuition Loan.
August 21  Last day (by 7 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
August 21  Last day to register (by 7 p.m.) without incurring a $100.00 late registration fee.
August 21  Graduate Student Orientation (University Park).
August 22  Transfer Orientation (Biscayne Bay Campus).
August 22 - 23  Freshman Orientation (University Park).
August 24 - 27  Housing check-in 9a.m.-8 p.m.
August 25  Freshman Convocation (Required of All Freshman).
August 26  International Student Orientation (University Park & Biscayne Bay Campus).
August 28  Classes begin.
September 2  Labor Day Holiday (University Closed).
September 5  Last day (by 5 p.m.) to complete late registration.
Drop/Add Period ends at 5 p.m.
Last day to change a grading option.
Last day (by 5 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
September 6  Last day to register for the CLAST exam on October 5.
September 13  Last day to submit FORM C: Thesis/Dissertation Committee Appointments. (Graduate Students)
September 20  Last day (by 5 p.m.) to apply for graduation at the end of Fall 2002 term.
September 23  Undergraduate Studies Advising before Spring 2003 term begins.
September 24  Last day (by 7 p.m.) to withdraw from the University with a 25% refund of tuition.
Sep. 30 – Oct. 4  Faculty Convocation Week
October 4  Faculty Convocation.
October 5  CLAST Exam.
October 9 – Dec 4  Fall 2002 Mini-Term
October 22  Deadline (by 7 p.m.) to drop a course with a DR grade.
Deadline (by 7 p.m.) to withdraw from the University with a WI grade.
November 11  Veterans’ Day Holiday (University Closed).
November 13  Last day to submit FORM D: Request for Thesis/Dissertation Defense. (Graduate Students)
November 27  Last day to hold thesis/dissertation defense. (Graduate Students)
November 28 – 29  Thanksgiving Holiday (University Closed).
November 30  No Saturday Classes.
December 4  Classes end.
December 5 – 6  Exam Study Days (No exams given on these days).
December 7 – 13  Official Examination Period.
December 13  Last day to submit final copy and FORM F: Thesis/Dissertation Memorandum of Approval.
December 16 & 17  Commencement Exercises.
December 17  Grades due at the Registrar’s Office.
December 19  Grades available to students by telephone, web and at kiosks.
December 25  Christmas Holiday (University Closed).

Spring Semester 2003  (January 8 – April 16; Final Exams April 29 – 25)

September 1  Last day for International Students to submit applications and all supporting documents for Spring term admission.
October 1  First day to apply for Spring 2003 term graduation.
October 1  Admission application priority consideration deadline (except international students).
November 11  Veterans’ Day Holiday (University Closed).
November 12  Transfer Orientation (University Park).
November 12  Transfer Orientation (Biscayne Bay Campus).
November 13 – 14  Freshman Orientation (University Park).
November 13 – 14  Freshman Orientation (Biscayne Bay Campus).
November 4 – 8  Registration Information and Access Codes available for Spring 2003 term.
November 11 - 15  Official Registration Week (Degree-Seeking Students only) by appointment time and day.
November 18 – Jan. 3  Open Registration All Students. Phone and Web & Kiosk Registration Continuous.
November 28 - 29  Thanksgiving Holiday (University Closed). Phone and Web & Kiosk Registration Continuous.
December 25  Christmas Holiday (University Closed).
Dec. 26 – Jan. 3  Short Term Tuition Loan Applications available.
January 1  New Year’s Day (University Closed).
January 3  Last day (by 5 p.m.) for students to apply for Short Term Tuition Loan
January 3  Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
January 3  Last day to register (by 5 p.m.) without incurring a $100.00 late registration fee.
January 5  Transfer Orientation (University Park).
January 5, 6 & 7  Housing check-in 9 a.m. - 8 p.m.
January 6  International Student Orientation (University Park & Biscayne Bay Campus).
January 6 – 7  Freshman Orientation (University Park).
January 8  Classes begin.
January 14  Last day (by 7 p.m.) to complete late registration.
Drop/Add Period ends at 7 p.m.
Last day to change grading option.
Last day (by 7 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
January 17  Last day to submit FORM C: Thesis/Dissertation Committee Appointments. (Graduate Students)
January 17  Last day to register for the CLAST exam on February 15.
January 20  Undergraduate Studies Advising for Summer/Fall 2003 terms begins.
January 20  Martin Luther King Holiday (University Closed).
January 31  Last day (by 5 p.m.) to apply for Spring 2003 term graduation.
February 1  Last day for International Students to submit applications for Summer term admission.
February 4  Last day (by 7 p.m.) to withdraw from the University with a 25% refund of tuition.
February 15  CLAST Exam.
Feb. 19 – Apr. 16  Spring 2003 Mini-Term.
March 4  Last day (by 7 p.m.) to drop a course with a DR grade.
Last day (by 7 p.m.) to withdraw from the University with a WI grade.
March 17 – 21  Spring Break.
March 24  Last day to submit FORM D: Request Thesis/Dissertation Defense. (Graduate Students)
April 1  Last day for International Students to submit applications for Fall 2003 term admission.
April 4  Last day to hold thesis/dissertation defense. (Graduate Students)
April 16  Classes End.
April 17 & 18  Exam Study Days (No exams given on these days).
April 19 – 25  Official Examination Period.
April 25  Last day to submit final copy and FORM F: Thesis/Dissertation Memorandum of Approval.
(Graduate Students)
April 28 & 29  
Commencement Exercises.
April 29  
Grades due at the Registrar's Office.
May 1  
Grades available to students by telephone, web and at kiosks.

Summer Semester 2003  (May 7 – August 8)

Summer Term A  (May 7 – June 18)

February 3  
First day to apply for Summer 2003 term graduation.
April 7 – 11  
Registration Information and Access Codes available for Summer 2003 term.
April 14 – 18  
Official Registration Week (Degree-Seeking Students only) by appointment time and day.
April 21 – 30  
Open Registration All Students. Phone and Web & Kiosk Registration Continuous.
April 21 – 30  
Short Term Tuition Loan Applications available.
April 23  
Transfer Orientation (University Park).
April 23  
Transfer Orientation (Biscayne Bay Campus).
April 30  
Last day (by 7 p.m.) for students to apply for a Short Term Loan.
April 30  
Last day (by 7 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
April 30  
Last day to register (by 7 p.m.) without incurring $100.00 late registration fee.
May 2  
Last day to register for the CLAST exam on June 7.
May 4, 5 & 6  
Housing check-in 9 a.m. to 8 p.m. for Summer Term A.
May 5  
International Student Orientation (University Park & Biscayne Bay Campus)
May 7  
Classes begin.
May 13  
Last day (by 7 p.m.) to complete late registration.
Drop/Add Period ends at 7 p.m.
Last day to change grading option.
Last day (by 7 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
May 23  
Last day to submit FORM C: Thesis/Dissertation Committee Appointments. (Graduate Students)
May 26  
Memorial Day Holiday (University Closed).
May 30  
Last day (by 5 p.m.) to apply for Summer 2003 graduation.
June 3  
Last day (by 7 p.m.) to apply for Summer 2003 Term.
Last day (by 7 p.m.) to drop a course with a DR grade.
Last day (by 7 p.m.) to withdraw from the University with a WI grade.
Last day (by 7 p.m.) to withdraw from the University with a 25% refund of tuition.
June 7  
CLAST Exam.
June 18  
Classes end.*
June 23  
Grades due at the Registrar’s Office.
June 25  
Summer Term A grades available to students via the web and at kiosks.
August 14  
Final grades and GPA calculation available by telephone, web and at kiosks.

Summer Term B  (June 25 – August 8)

June 9 – 19  
Summer Term B registration resumes.
June 7 – 8  
Freshmen Orientation (University Park & Biscayne Bay Campus).
June 10 – 11  
Freshmen Orientation (University Park & Biscayne Bay Campus).
June 14 – 15  
Freshmen Orientation (University Park).
June 17 – 18  
Freshmen Orientation (University Park & Biscayne Bay Campus).
June 19  
Last day (by 5 p.m.) to pay tuition and fees to avoid cancellation of enrollment.
June 19  
Last day to register (by 5 p.m.) without incurring $100.00 late registration fee.
June 23  
International Student Orientation (University Park & Biscayne Bay Campus).
June 22, 23 & 24  
Housing Check-in 9 a.m. to 8 p.m. for Summer Term B.
June 25  
Classes begin.
July 1  
Last day (by 7 p.m.) to complete late registration.
Drop/Add Period ends at 7 p.m.
Last day to change grading option.
Last day (by 7 p.m.) to drop courses or withdraw from the University without incurring a financial liability.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 4</td>
<td>Independence Day (University Closed).</td>
</tr>
<tr>
<td>July 11</td>
<td>Last day to submit FROM D: Request for Thesis/Dissertation Defense. (Graduate Students)</td>
</tr>
<tr>
<td>July 25</td>
<td>Last day to hold thesis/dissertation defense.</td>
</tr>
<tr>
<td>July 22</td>
<td>Last day (by 1 p.m.) to drop a course with a DR grade.</td>
</tr>
<tr>
<td></td>
<td>Last day (by 7 p.m.) to withdraw from the University with a WI grade.</td>
</tr>
<tr>
<td></td>
<td>Last day (by 7 p.m.) to withdraw from the University with a 25% refund of tuition.</td>
</tr>
<tr>
<td>August 8</td>
<td>Classes end.</td>
</tr>
<tr>
<td>August 12</td>
<td>Grades due at the Registrar's Office.</td>
</tr>
<tr>
<td>August 14</td>
<td>Grades available to students by telephone, web and at kiosks.</td>
</tr>
<tr>
<td>August 15</td>
<td>Last day to submit final copy and FROM F: Thesis/Dissertation Memorandum of Approval.</td>
</tr>
<tr>
<td></td>
<td>(Graduate Students)</td>
</tr>
</tbody>
</table>

**Summer Term C (May 7 – August 8)**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 7 – 11</td>
<td>Registration Information and Access Codes available for Summer 2003 term.</td>
</tr>
<tr>
<td>April 14 – 18</td>
<td>Official Registration Week (Degree-Seeking Students only) by appointment time and day.</td>
</tr>
<tr>
<td>April 21 – 30</td>
<td>Open Registration All Students. Phone and Web &amp; Kiosk Registration Continuous.</td>
</tr>
<tr>
<td>April 21 – 30</td>
<td>Short Term Tuition Loan Applications available.</td>
</tr>
<tr>
<td>April 30</td>
<td>Last day (by 7 p.m.) for students to apply for a Short Term Tuition Loan.</td>
</tr>
<tr>
<td>April 30</td>
<td>Last day (by 7 p.m.) to pay tuition and fees to avoid cancellation of enrollment.</td>
</tr>
<tr>
<td>April 30</td>
<td>Last day (by 7 p.m.) to register without incurring a $100.00 late registration fee.</td>
</tr>
<tr>
<td>May 2</td>
<td>Last day to register for the CLAST exam on June 7.</td>
</tr>
<tr>
<td>May 5</td>
<td>International Student Orientation (University Park &amp; Biscayne Bay Campus).</td>
</tr>
<tr>
<td>May 4, 5 &amp; 6</td>
<td>Housing Check-in 9 a.m. to 8 p.m. for Summer Term C.</td>
</tr>
<tr>
<td>May 7</td>
<td>Classes begin.</td>
</tr>
<tr>
<td>May 13</td>
<td>Last day (by 7 p.m.) to complete late registration.</td>
</tr>
<tr>
<td></td>
<td>Drop/Add Period ends at 7 p.m.</td>
</tr>
<tr>
<td></td>
<td>Last day to change grading option.</td>
</tr>
<tr>
<td></td>
<td>Last day (by 7 p.m.) to drop courses or withdraw from the University without incurring a</td>
</tr>
<tr>
<td></td>
<td>financial liability.</td>
</tr>
<tr>
<td>May 13</td>
<td>Undergraduate Studies Advising for Fall 2003 term resumes.</td>
</tr>
<tr>
<td>May 23</td>
<td>Last day to submit FORM C: Thesis/Dissertation Committee Appointments. (Graduate Students)</td>
</tr>
<tr>
<td>May 26</td>
<td>Memorial Day Holiday (University Closed).</td>
</tr>
<tr>
<td>May 30</td>
<td>Last day (by 5 p.m.) to apply for Summer 2003 graduation.</td>
</tr>
<tr>
<td>June 3</td>
<td>Last day (by 1 p.m.) to withdraw from the University with a 25% refund of tuition.</td>
</tr>
<tr>
<td>June 7</td>
<td>CLAST exam.</td>
</tr>
<tr>
<td>July 1</td>
<td>Last day (by 7 p.m.) to drop a course with a DR grade.</td>
</tr>
<tr>
<td></td>
<td>Last day (by 7 p.m.) to withdraw from the University with a WI grade.</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day Observed (University Closed).</td>
</tr>
<tr>
<td>July 11</td>
<td>Last day to submit FORM D: Request for Thesis/Dissertation Defense. (Graduate Students)</td>
</tr>
<tr>
<td>July 25</td>
<td>Last day to hold thesis/dissertation defense.</td>
</tr>
<tr>
<td>August 8</td>
<td>Classes end.</td>
</tr>
<tr>
<td>August 15</td>
<td>Last day to submit final copy and FORM F: Thesis/Dissertation Memorandum of Approval.</td>
</tr>
<tr>
<td></td>
<td>(Graduate Students)</td>
</tr>
<tr>
<td>August 12</td>
<td>Grades due at the Registrar's Office.</td>
</tr>
<tr>
<td>August 14</td>
<td>Grades available to students by telephone, web and at kiosks.</td>
</tr>
<tr>
<td>August 28</td>
<td>Fall semester classes begin.</td>
</tr>
</tbody>
</table>

*Grades will be posted on transcripts. However, graduation will not be processed until the end of the Complete Summer Term, August 8.

Calendar dates are subject to change. Please contact appropriate offices for verification and updates. This calendar includes official University holidays. Faculty are encouraged to make accommodations for students who wish to observe religious holidays. For a listing of religious holidays you may visit [http://www.earthcalendar.net](http://www.earthcalendar.net)

Students should make their request known at the beginning of the semester.
General Information

The University
Florida International University — Miami’s public research university — is one of America’s most dynamic institutions of higher learning. Since opening in 1972, FIU has achieved many benchmarks of excellence that have taken other universities more than a century to reach. FIU, a member institution of the State University System of Florida, was established by the Florida Legislature in 1965. Classes began in September 1972, with 5,667 students enrolled in upper division and graduate programs — the largest opening day enrollment in the history of American higher education. In 1984, FIU received authority to begin offering degree programs at the doctoral level, and in 1994, the Carnegie Foundation for the Advancement of Teaching classified FIU as a Doctoral 1 University. This classification was changed in 2000, when FIU became a Doctoral/Research University-Extensive, the highest ranking in the Carnegie Foundation prestigious classification system.

Modesto A. (Mitch) Maidique is FIU’s fourth president. Appointed in 1986, the former Harvard Business School professor and high-tech entrepreneur received his PhD. In Electrical Engineering from the Massachusetts Institute of Technology and was associated with MIT, Harvard, and Stanford for 20 years. President Maidique has built on the sound foundation laid by his predecessors — Charles E. Perry, FIU’s first president, appointed in July 1969; Harold B. Crosby, who succeeded in June 1976; and Gregory B. Wolfe, named the third president in February 1979.

FIU has nationally and internationally renowned faculty known for their outstanding teaching and cutting-edge research; students from throughout the U.S. and more than 130 foreign countries; and alumni who have risen to prominence in every field and are a testament to the University’s academic excellence. The University is a member of Phi Beta Kappa, the nation’s oldest and most distinguished academic honor society. FIU offers more than 180 baccalaureate, master’s and doctoral degree programs in 17 colleges and schools: Accounting, Architecture, Arts and Sciences, Business Administration, Computer Science, Education, Engineering, Health, Health and Urban Affairs, Honors, Hospitality Management, Journalism and Mass Communication, Music, Nursing, Policy and Management, and Social Work. The FIU College of Law will welcome its first class in Fall 2002.

FIU has more than 32,000 students, 1,100 full-time faculty, and 90,000 alumni, making it the largest university in South Florida and placing it among the nation’s largest colleges and universities. The University has two campuses – University Park in western Miami-Dade County and the Biscayne Bay Campus in northeast Miami-Dade County — and an educational facility at the Pines Educational Center in nearby Broward County. Numerous programs are offered at-off campus locations and online. U.S. News & World Report has ranked FIU among the top 100 public national universities in its annual survey of “America’s Best Colleges.” FIU has been recognized as one of the top 10 public commuter universities in the nation by Money. Kiplinger’s Personal Finance Magazine ranked FIU as the country’s 18th best value in public higher education.

Accreditations
All academic programs of Florida International University are approved by the Florida Board of Education and the FIU Board of Trustees. The University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number 404-679-4501) to award the baccalaureate, masters, and doctoral degrees. SACS reaffirmed FIU’s accreditation on December 5, 2000. Degree programs at FIU are accredited or approved by the appropriate specialized accreditation agency, or are pursuing full accreditation or approval. To obtain information about the specialized accreditation agencies, their criteria and review process, contact the Chairperson/Director of the respective degree program. The professional accrediting agencies and the respective FIU degree programs are listed in alphabetical order below.

Accounting
Association for Management Education (AACSB) International Architecture
National Architectural Accrediting Board (NAAB)
Research Programs

Florida International University emphasizes research as a major component of its mission, having attained Research I status, which was one of its top priorities. Sponsored research funding from outside sources grew almost five-fold over the last decade, from nearly $13.5 million in 1990-91 to $61.2 million in 2000-01. These funds, secured through contracts and grants from federal and state agencies, private foundations, and corporations, are used to conduct research, provide stipends for graduate students and improve research facilities.
Academic Programs

School of Architecture
Bachelor of Design in Architectural Studies
Bachelor of Science in Interior Design

College of Arts and Sciences
Bachelor of Arts in:
Art History
Asian Studies
Chemistry
Dance
Economics
English
Environmental Studies
French
Geography
Geology
History
Humanities
International Relations
Liberal Studies
Philosophy
Political Science
Portuguese
Psychology
Religious Studies
Sociology/Anthropology
Spanish
Theatre
Women's Studies
Bachelor of Fine Arts in:
Art
Theatre
Bachelor of Music
Bachelor of Science in:
Biological Science
Chemistry
Computer Science
Environmental Studies
Geology
Marine Biology
Mathematics
Mathematical Sciences
Physics
Statistics

College of Business Administration
Bachelor of Accounting
Bachelor of Business Administration with majors in:
Finance
International Business
Management
Management Information Systems
Marketing
Personnel Management

College of Education
Bachelor of Science in:
Art Education

Biscayne Bay Campus Programs

College of Arts and Sciences
Bachelor of Arts in:
English
Humanities
History
International Relations
Liberal Studies
Political Science
Psychology
Sociology/Anthropology
Visual Arts
Bachelor of Science in:
Marine Biology

College of Business Administration
Bachelor of Business Administration with a major in:
Marketing
Accounting
Information Systems

College of Education
Undergraduate Foundations courses

College of Health and Urban Affairs
Bachelor of Science in:
Health Information Management
Nursing
Bachelor of Science in Social Work
Bachelor of Health Services Administration
Bachelor of Public Administration

School of Hospitality Management
Bachelor of Science in Hospitality Management
Bachelor of Science in Travel and Tourism Management

School of Journalism and Mass Communication
Bachelor of Science in Communication

Broward County Programs

College of Education
Courses for Teacher Education
Courses in Vocational Education

College of Engineering
Bachelor of Science in Construction
Management

College of Health and Urban Affairs
Bachelor of Science in Nursing (RN to BSN)

Primary Location:
Pines-Broward Programs are located at the Pines Center in Pembroke Pines

Minors
A minor program is an arrangement of courses enabling a student to develop a degree of expertise and knowledge in an area of study in addition to his or her major academic program of study.

To receive a minor, a student must also complete the requirements for a baccalaureate degree from the University. A minor is not interdisciplinary.

College of Arts and Sciences
Art History
Biology
Chemistry
Computer Science
Dance
Economics
English
French Language and Culture
General Translation Studies
Geology
Geography
History
Humanities
International Relations
Mathematical Sciences
Mathematics
Music
Philosophy
Physics
Political Science
Portuguese
Psychology
Religious Studies
Sociology/Anthropology
Spanish Language and Culture
Statistics
Theatre
Visual Arts

College of Business Administration
(for non-Business majors only)
Business
Entrepreneurship

College of Engineering
Biomedical Engineering

College of Health and Urban Affairs
Criminal Justice
Health Services Administration

Medical Laboratory Sciences
Nutrition
Public Administration
Social Welfare

School of Hospitality Management
Hotel/Lodging Management
Restaurant/Food Service Management
Travel/Tourism Management

School of Journalism and Mass Communication
Advertising
Journalism
Mass Communication
Public Relations
Television

Certificates
Certificate Programs are structured combinations of courses with a common base of interest from one or more disciplines into an area of concentration.

Successful completion of a Certificate Program is entered on the student's transcript and records. Two types of certificates are awarded:

Academic Certificate
Awarded by an academic unit to a student at the time of awarding a bachelor's degree; or upon completion of the appropriate coursework to a student who already has a bachelor's degree.

An academic certificate shall not be awarded to a student who does not possess either a bachelor's degree or does not complete a bachelor's degree program. An academic certificate is to be interdisciplinary in nature, to the greatest extent possible.

Professional Certificate
Awarded by an academic unit to an individual who completes the appropriate coursework in the area of concentration. The professional certificate does not need to be interdisciplinary or associated with a degree program.

For details and course requirements, refer to the appropriate section in each College or School.

College of Arts and Sciences

Academic Certificates in:
Actuarial Studies
African-New World Studies
American Studies
Ancient Mediterranean Civilization
Asian Studies
Asian Globalization and Latin American Studies

Brazil Studies
Environmental Studies
Ethnic Studies
European Studies
Film Studies
Forensic Science
Gerontological Studies
International Studies
Jewish Studies
Labor Studies
Latin American and Caribbean Studies
Law, Ethics and Society
Linguistic Studies
Public Policy Studies
Women's Studies

Professional Certificates in:
Labor Studies and Labor Relations
Legal Translation and Court Interpreting
Professional Language Translation Studies
Tropical Commercial Botany

College of Business Administration
Academic Certificate in:
Retail Management

College of Education
Professional Certificates in:
Organizational Training
Vocational-Technical Education

Academic Certificates in:
Early Childhood Education
Elementary Education
English Education
Special Education
Foreign Language
Varying Exceptionalities

College of Health and Urban Affairs
Academic Certificates in:
Law and Criminal Justice

Professional Certificates in:
Health Information Coding
Health Information Management
Urban Affairs

School of Hospitality Management
Professional Certificates in:
Hotel/Lodging Management
Restaurant/Foodservice Management
Travel and Tourism Management

School of Journalism and Mass Communication
Professional Certificates in:
Integrated Communications:
Advertising and Public Relations
Media Management
Spanish Language Journalism
Student Media Advising
Television Production

Evening and Weekend
Degree Programs

College of Arts and Sciences
Bachelor of Arts in:
  Economics
  English
  Liberal Studies
  Political Science
  Psychology
  Sociology/Anthropology
  Spanish
Bachelor of Science in:
  Computer Science

College of Business
Administration
  Bachelor of Accounting
  Bachelor of Business Administration

College of Engineering
Bachelor of Science in:
  Computer Engineering
  Construction Management
  Electrical Engineering
  Industrial Engineering
  Mechanical Engineering

College of Health and Urban Affairs
Bachelor of Science in:
  Nursing
  Criminal Justice
  Bachelor of Health Services
  Administration
  Bachelor of Public Administration

School of Hospitality Management
Bachelor of Science in Hospitality Management

School of Journalism and Mass Communication
Bachelor of Science in Communication

For more information, call the appropriate college or school.
Florida International University encourages applications from qualified applicants, without regard to sex, physical handicap, cultural, racial, religious, or ethnic background or association.

**Application Process**

Students interested in applying can do so via the following methods:

**Application Online**

Students with internet access can apply online by visiting FIU's website at www.fiu.edu/orgs/admiss for application and instructions.

**EZ Application**

Students applying from Florida public high schools, colleges, or universities should send their transcripts electronically to FIU to begin their admissions process. Admissions will mail and EZ application form for completion and return.

**Paper Application**

Applicants for admissions may be obtained from the Office of Admissions, Florida International University, from Florida high schools and community colleges and universities.

All credentials and documents submitted to the Office of Admissions become the property of Florida International University. Originals will not be returned to the applicant or forwarded to another institution. A non-refundable application fee (U.S. Dollars) made payable to Florida International University must accompany all forms of application. In addition, the following credentials are required:

**Freshman Applicants**

1. Official secondary school transcripts and appropriate test scores: Scholastic Aptitude Test (SAT) or the American College Test (ACT).

Applicants whose native language is not English and who have not taken any college level English courses, must present a minimum score of 500 paper-based and a minimum score of 173 computer-based in the Test of English as a Foreign Language (TOEFL), or a minimum of 3 on the Advanced Placement International English Language Examination (APIEL).

**Office of Admissions**

All official transcripts, test scores, and any other required credentials must be received directly from the issuing agencies, and forwarded to P.O. Box 659003, Miami, FL. 33265-9003. It is the applicant's responsibility to initiate the request for credentials to the issuing agencies and to assure their receipt by the Office of Admissions.

2. Proof of graduation from an accredited secondary school must be submitted.

3. Nineteen academic units in college preparatory courses are required as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Required Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language¹</td>
<td>2</td>
</tr>
<tr>
<td>Academic Electives²</td>
<td>4</td>
</tr>
</tbody>
</table>

¹Two units in the same foreign language are required.

²Academic Electives are from the fields of mathematics, English, natural science, social science, and a foreign language. The academic grade point average will be computed only on the units listed above. Grades in honors courses, International Baccalaureate (IB), and advanced placement (AP) courses will be given additional weight.

Freshman admission decisions are made based on the student's strong academic preparation. Competition for places in the freshman class is created by the quality and extent of the applicant pool.

Applicants who do not meet the above criteria will be reviewed by the Admissions Review Committee. Those who show potential in areas not easily evaluated by standardized tests can be considered for admission under the Profile Assessment Rule.

Students who are applying to majors in Theatre, Music, and Dance, in addition to meeting university academic standards, must meet the approval of the respective department through an audition. Contact the department for audition dates.

**Transfer Applicants**

Degree seeking applicants with fewer than 60 semester hours of transfer credits must meet the same requirements as beginning freshmen. In addition, they must demonstrate satisfactory performance in their college work.

Applicants who receive an Associate in Arts (A.A.) degree from a Florida Public Community College or State University in Florida will be considered for admission without restriction except for published Limited Access Programs within the University.

All other applicants from Florida Public Community Colleges or State Universities in Florida who do not hold an Associate in Arts degree (A.A.) must have completed 60 semester hours of transferable credit, have a minimum grade point average of 2.0, and must present College Level Academic Skills Test (CLAST) scores before admission can be granted.

Students transferring from independent Florida and out-of-state colleges into the University's upper division must have maintained a minimum 2.00 grade point average based upon a 4.00 scale.

Coursework transferred or accepted for credit toward an undergraduate degree must be completed at an institution accredited as degree-granting by a regional accrediting body for higher education at the time the coursework was completed. Each academic department will review transfer credits to determine if they meet program requirements and reserves the right to accept or reject those credits. Students must contact their academic department to obtain any additional requirements needed for their program of study.

All applicants must meet the criteria published for Limited Access Programs and should consult the specific college and major for requirements.

Applicants who meet the above admissions requirements, but have not completed the general education requirements, or the prerequisites of their proposed major, may complete this college work at FIU, or at any other accredited institution. Students may also fulfill general education requirements through the College Level Examination Program (CLEP).

Official transcripts from all previous post secondary institutions must be forwarded to the Office of Admissions. Students are responsible for initiating this request.

Transfer applicants from a state community college are encouraged to review the current edition of FIU's transfer student counseling manual.
available in all of Florida's community colleges counseling offices. All students seeking admission to the University regardless of whether the student holds an A.A., must have completed two years of credit in one foreign language at the high school level or 8-10 credits in one foreign language at the college level (American Sign Language is acceptable). If a student is admitted to the University without this requirement, the credits must be completed prior to graduation.

Students who can demonstrate continuous enrollment in a degree program at an SUS institution or Florida Community College since Fall Term, 1989 (continuous enrollment is defined by the state to be the completion of at least one course per academic year) can be exempt from this requirement.

Students holding an A.A. degree from a Florida Community College or SUS institution prior to Fall Term, 1989 will also be exempt.

Students who are applying to majors in Theatre, Music, and Dance, in addition to meeting university academic standards, must meet the approval of the respective department through an audition. Contact the department for audition dates.

Applicants whose native language is not English and who have not taken any college level English courses, must present a minimum score of 500 paper-based and a minimum score of 173 computer-based in the Test of English as a Foreign Language (TOEFL).

Admission decisions will not be made before a completed application and all supporting documents are on file in the Office of Admissions.

Applications are kept on file for one year from the anticipated entrance date. All credentials and documents submitted to the Office of Admissions become the property of Florida International University. Originals or copies of the originals will not be returned to the applicant or forwarded to another institution, agency, or person.

Admission to the University is a selective process and satisfying the general requirements does not guarantee acceptance.

**Limited Access Programs**

A limited access program utilizes selective admission to limit program enrollment. Limited access status is justified where student demand exceeds available resources such as faculty, instructional facilities, equipment, or specific accrediting requirements. Criteria for selective admission include indicators of ability, performance, creativity, or talent to complete required work within the program. Florida Community College transfer students with Associate in Arts degrees are given equal consideration with FIU students. Admission to such programs is governed by the Articulation Agreement and the Florida Board of Education rules.

The following programs have been designated as limited access:
- Dietetics and Nutrition
- Nursing
- Occupational Therapy

**Requirements for Admission to Undergraduate Teacher Education Programs**

In the College of Education, all applicants for teacher education programs must have an overall GPA of 2.5 or above and pass all parts of the College Level Academic Skills Test (CLAST).

For freshmen entering their freshman year of college in or after the 2002-2003 academic year, the following General Education requirements will apply:

- Nine (9) semester hours in English to include writing, literature, and speech;
- Nine (9) semester hours in science to include earth science, life science, and physical science, with a minimum of one associated laboratory;
- Nine (9) semester hours in mathematics to include college algebra or above and geometry;
- Twelve (12) semester hours in social sciences to include American history and general psychology;
- Six (6) semester hours in humanities to include philosophy and fine arts.

Please see COE program advisors for specific course requirements.

**Priority Consideration**

Due to the additional processing time needed for International Students, plan to submit your application and supporting documents as early as possible. We recommend no later than February 1st if you are applying for Summer semester, April 1st if you are applying for Fall semester, and September 1st if you are applying for Spring semester.

If the application and documents are not received by the appropriate time, the application for admissions will have to be considered for the following term.

**International Admissions**

International student applicants must meet the admission requirements of the University as described in the previous sections and comply with the following:

**Academic Records**

Official transcripts, diplomas, and/or certificates must be sent directly from each previous institution to the Office of Admissions. Documents in a language other than English must be translated by an official translation agency. Notarized translations are not acceptable.

All credentials and documents submitted to the Office of Admissions become the property of Florida International University. Originals or copies of originals will not be returned to the applicant or forwarded to another institution, agency, or person.

**Proficiency in English**

Applicants who hold an undergraduate or graduate degree from an institution within the United States or other English-speaking countries are not required to submit TOEFL.

**Declaration and Certification of Finances**

Upon receipt of the application for admission, the Declaration and Certification of Finances will be mailed to the applicant. It must be completed and returned to the Office of Admissions. A Certificate of Eligibility (Form I-20A) will be issued once the applicant has been found admissible to the University.

The University is required by immigration authorities to check carefully the financial resources of each applicant prior to issuing the Form I-20A. Therefore, it is important that applicants are aware of the cost of attending the University and have the necessary support funds for the period of enrollment. Applicants should refer to the Annual Estimate of Cost Chart.

The total funds available for the student for the first or second academic year, or both, must equal the total estimate of institutional costs and living...
expenses. All items in the Declaration and Certification of Finances must be accurately answered to avoid unnecessary delay in processing. This document along with proof of sufficient funds must be received by the Office of Admissions two months prior to the anticipated entry date.

Refer to the Annual Estimate of Cost table for more information. A married student should plan on an additional $6,000 in costs to cover the living expenses of a spouse.

A couple with children should anticipate further yearly additional costs of no less than $4,000 for each child.

Medical Insurance
The State of Florida requires that all international students maintain health insurance coverage to help defray the costs in case of catastrophic medical emergency. The policy must provide specific levels of coverage which have been established to ensure that the policy is adequate to provide for costs at U.S. hospitals, usually much higher than costs in many other parts of the world. In addition, a policy must have a claims agent in the United States who may be contacted by medical providers and who facilitates prompt payment of claims. The University has approved a plan which meets the state requirements and which meets the needs of most students; however, a student on F status may select alternate coverage provided it meets the state requirements for minimal coverage. A copy of these requirements is available from International Student and Scholar Services. Students are advised not to purchase insurance policies prior to arrival without verifying that the policies meet FIU/SUS requirements. Students in J status are required by the United States Information Agency to maintain health insurance coverage for themselves and their dependents for the full length of their program. Florida International University requires students on J status sponsored by FIU to purchase the University approved medical insurance plan for themselves and their dependents. Compliance with the insurance regulation is required prior to registration.

Required Entrance Tests
All freshman applicants are required to submit the results of the Scholastic Aptitude Test (SAT) or the American College Test (ACT).

Tuition
An international student is considered a non-resident and is assessed non-resident fees. Immigration regulations require an international student to attend school each fall and spring semester. An undergraduate student is required to take a minimum of twelve credit hours per semester. Please refer to the section on Student Fees and Student Accounts for more information.

Full-Time Enrollment
Non-immigrant alien students in F-1 visa status are required by United States immigration regulations to be enrolled full-time, except for the summer terms, and to make satisfactory progress toward the degree program in each term; otherwise the student's immigration status may be jeopardized. Full-time enrollment is defined as enrollment every term for a minimum of 12 semester hours (undergraduate), or nine semester hours (graduate).

The laws and regulations of the United States Department of Justice, Immigration and Naturalization Service state:

It is the student's responsibility to comply with all non-immigrant alien requirements as stated under the United States laws under Section 101(a)(15)(f)(i) of the Immigration and Nationality Act.

Granting official Extension of Stay is dependent upon the student's achieving normal academic progress toward the degree requirements.

Employment
The legal regulations governing F-1 student employment are complex, and advisors are available at International Student and Scholar Services to explain these regulations. International students must check with this office before engaging in any type of employment, either paid or unpaid. In general, however, employment is available only to students who maintain their legal status in the U.S. and is regulated under three categories:

a) On-campus employment: F-1 students may be employed on the FIU campus for a maximum of 20 hours per week during fall and spring semesters while school is in session, and full time during holidays, vacations, and summer. On-campus employment includes teaching and research assistantships for graduate students and hourly part time work. Students must contact individual campus departments to inquire about employment opportunities.

b) Off-campus employment: F-1 students may request off-campus employment under very limited conditions and only after maintaining F-1 status for at least one full academic year. Off-campus employment opportunities are not readily available, and students should not rely on off-campus employment as a source of income to finance their studies.

c) Practical training: F-1 students may request practical training employment to accept jobs related to their studies. Students usually pursue practical training employment after completion of degree requirements, although in some cases practical training may be authorized prior to completion of studies. Since practical training employment is limited to one year of full-time employment, students cannot rely on it as a source of income to finance their studies.

Note: An international student will not be granted admission to the University until all academic and non-academic requirements have been met. Under no circumstances should a student come to the University without having received the official Letter of Admission and the I-20A Form. All correspondence and document submissions should be directed to: Office of Admissions, Florida International University, P.O. Box 659003 Miami, Florida 33265-9003.

Scholarships
FIU recognizes students who are academically, artistically, and athletically talented. The University awards full and partial academic scholarships.

Advancing for Major Fellowships
Counseling by designated faculty is available for students interested in applying for nationally competitive scholarships such as a Fulbright, Goldwater, Hertz, Luce, Marshall, Mellon, National Science Foundation, Rhodes, Rotary, and Truman. All are awarded through national competition. Most applications are made early in the fall of the senior year, except for Rotary fellowships, which are available for any year. Goldwater scholarships, which are only for Sophomores, and Truman scholarships, which are only for Juniors. Further information and the
names of the designated faculty for each award are available from Undergraduate Studies at University Park, PC 245, (305) 348-2800 or Biscayne Bay Campus, AC1 180, (305) 919-5754.

National Merit/Achievement Scholarship Program
Florida International University recognizes the academic talent of students who are selected as National Merit and National Achievement Finalists by the National Merit Scholarship Corporation. National Merit/Achievement Scholarship packages are worth up to $36,000 for four consecutive years at the University.

National Hispanic Scholarship
Outstanding Hispanic students who are recognized by the College Board as National Hispanic Scholars are eligible for the University’s National Hispanic Award. The award is worth up to $36,000 for four consecutive years at the University.

Presidential Scholarships
Outstanding entering freshmen are selected each year to receive the Presidential Scholarship. All qualifying students who complete the application process before the scholarship deadline will be considered and the awards will be given to selected candidates on a competitive basis based on the applicant pool. Students must have a 3.5 to compete.

- Students scoring 1300 or higher on the SAT or 29 or higher on the ACT will be eligible to receive $3,000 per year.
- Students scoring between 1200-1290 on the SAT or 27-28 on the ACT will be eligible to receive $2,000 per year.

Academic Excellence Scholarship
High school seniors with a 3.5 GPA and commensurate SAT or ACT scores may be eligible to receive the Academic Excellence Scholarship. This scholarship is a partial tuition award and may be renewed annually.

Valedictorian and Salutatorian Scholarships
To recognize the efforts of high school seniors who graduate first or second in their class, the University offers Valedictorian and Salutatorian Scholarships.

Fall Term Entry Awards
• Valedictorians who meet the Fall admissions requirement are eligible to receive a $5,000 per year renewable scholarship.
• Salutatorians who meet the Fall admissions requirement are eligible to receive a $4,000 per year renewable scholarship.

Summer Term Entry Awards
• Valedictorians who meet the Summer admissions requirement are eligible to receive a $2,000 per year renewable scholarship.
• Salutatorians who meet the Summer admissions requirement are eligible to receive a $1,000 per year renewable scholarship.

Bright Futures Scholarship Program
Florida high school seniors may qualify for one of the following scholarships from the Florida Department of Education:

- Florida Merit Scholars: students with a 3.0 GPA and a 970 SAT or 20 ACT receive a package worth up to 75% of tuition and fees.
- Florida Academic Scholars: students with a 3.5 GPA and a 1270 SAT or 28 ACT can earn a full tuition scholarship and a $600 book stipend.
- Florida Gold Seal Vocational Scholars: students who complete a two-year vocational or technical program with a 3.0 GPA overall and 3.5 GPA in vocational courses can earn a scholarship worth up to 75% of tuition.

Effective Fall 2002, Bright Futures recipients are subject to certain CLEP requirements. Please see http://www.firm.edu/doe/brfutures for the explanation of these requirements.

Transfer Academic Scholarships
Transfer students who would like to be considered for academic scholarships must apply through the Honors College. Student with at least a 3.3 in prior college work can apply at the sophomore or junior level. Scholarship recipients are selected on the basis of their transfer GPA (with special attention paid to performance in honors courses), extra-curricular activities, and letters of recommendation. All scholarship recipients must be members of the Honors College and maintain full-time enrollment.

For more detailed information on these scholarships, applicants should contact the Office of Admissions, PC 140 - University Park, (305) 348-2363.

Holcombe Scholars
Available only to graduates of Broward Community College, this award covers the full cost of in-state tuition and registration fees.

Padron Scholars
Available only to graduates of Miami-Dade Community College, this award covers the full cost of in-state tuition and registration fees.

Presidential Scholars
Available to graduates of all Florida community colleges, this award covers the full costs of in-state tuition and registration fees.

FIU/CC Honors Scholarship
Available to students who have received the A.A. degree and a recommendation from their Florida college. This award provides support for a maximum of four semesters.

Phi Theta Kappa Scholarship
Each year one outstanding member of PTK is awarded a scholarship for a maximum of two years. Interested students must submit a recommendation letter from their PTK faculty advisor.

Non-Florida Residents Scholarship Award
Transfer students who are admitted to the Honors College may be considered for partial out-of-state tuition scholarships on a merit basis. Competition is keen, and the awards are limited.

Re-admission
An admitted degree-seeking student who has not enrolled in any course at the University for one full academic year or more is eligible for re-admission. The student must meet the University and program regulations in effect at the time of re-admission. Students must contact the Office of Admissions to apply for re-admission.

Students with Internet access can visit FIU’s website at www.fiu.edu/orgs/admiss download the application, complete and mail to Florida International University, Office of Admissions, P.O. Box 659003, Miami, Florida 33265-9003.

Undergraduate Academic Amnesty
Effective Fall 1998, FIU undergraduate students who have not been enrolled in
any university or college for at least six calendar years may apply for academic amnesty. If re-admitted, students will begin with a new grade point average of 0.0. No grades previously earned will be included in the University grade point average, however, credit for previous University courses, in which a grade of "C" or better was earned may be applied toward a degree, subject to determination by the College of the student’s major. All prior courses attempted and grades received will be on the student’s transcript. Admitted students may not petition for any retroactive change in their academic record. Students applying for academic amnesty to a limited access program must meet the admission criteria of the program. Students must follow the regular re-admission application process and complete the amnesty form for consideration to be determined by the student’s academic dean.

**Undergraduate Academic Salvage**

Effective Fall 1998, FIU undergraduate students who are academically dismissed from the University or who have a GPA below a 2.0, and who subsequently receive an Associate of Arts degree from another Florida public institution of higher learning, if re-admitted to FIU will have their grade point average calculated again. Students re-admitted under Academic Salvage will be credited with a maximum of 60 semester credit hours. Students must follow the regular re-admission application process and complete the Academic Salvage form for consideration by the student’s academic dean.

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### Annual Estimate of Costs for Undergraduate International Students

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Student (30 semester hrs)</td>
<td></td>
</tr>
<tr>
<td>Tuition and Fees(^1)</td>
<td>$11,500</td>
</tr>
<tr>
<td>Maintenance(^2)</td>
<td>$15,048</td>
</tr>
<tr>
<td>Books &amp; Supplies</td>
<td>$1,080</td>
</tr>
<tr>
<td>Medical Insurance</td>
<td>$645</td>
</tr>
<tr>
<td>Total</td>
<td>$28,273</td>
</tr>
</tbody>
</table>

\(^1\)Tuition and fees are subject to change. Fees include the Student Health Fee ($44 per semester), the Athletic Fee ($10.00 per semester) and the Parking Fees ($38.30 per semester). Amounts shown reflect 15 semester hours of undergraduate credit Fall and Spring terms only.  
\(^2\)Maintenance is estimated at $1254.00 per month to cover room, board, clothing, transportation, and incidentals.  
This cost is for nine months.  
\(^3\)All international students are required to carry medical insurance.
Undergraduate Studies

Academic Advising Center
Academic advising of students with fewer than 36 semester hours of earned credit is the responsibility of the Academic Advising Center in Undergraduate Studies. When admitted to the University, the student will meet with an advisor who will help plan the student's academic program. At the completion of 30 semester hours of earned credits, the student can choose an intended major, and after 60 semester hours, a student should officially declare a major. Students with intended or declared majors will be advised by faculty members or professional advisors in their major department.

Before students are cleared to register for classes they are required to participate in an academic advising session or see an advisor in the Advising Center each semester.

Academic information is available in PC 249, University Park, and ACI-180, Biscayne Bay Campus.

English and Math Placement
All freshmen entering the University are required to complete placement tests prior to advising and registration. Tests are offered at orientation the semester before attending the University. The Freshman Testing/Placement Program includes computational skills and standards of written English.

Newly admitted sophomore transfer students with fewer than 36 credits who have not met the Core Curriculum requirements in mathematics or English must participate in the Freshman Testing/Placement Program or demonstrate satisfactory completion of equivalent courses and participate in advising sessions before they will be allowed to register for English or math courses at the University.

CLAST
The College-Level Academic Skills Test is part of Florida's system of education accountability that satisfies the mandates of Section 229.551(3)(i), Florida Statutes. The CLAST is an achievement test that measures students' attainment of the college-level communication and mathematics skills that were identified by the faculties of community colleges and state universities.

Since August 1, 1984, students in public institutions in Florida have been required to pass the four sub-tests of the CLAST for the award of an Associate in Arts degree, for admission to upper-division status or no later than earning 96 credit hours. There are two exceptions to this rule: 1) anyone seeking an undergraduate degree from a Florida institution and who already has earned an accredited Bachelor's degree; 2) anyone awarded an Associate in Arts degree from a Florida institution before September 1, 1982, and admitted to upper-level status at a Florida institution before August 1, 1984, is not required to take the CLAST.

The State Board of Education and the Florida Statutes provide special consideration for students in public institutions who have a specific learning disability such that they cannot successfully complete one or more CLAST sub-tests. These students may appeal to an institutional committee for a waiver of the requirement to pass any applicable sub-test(s) of the CLAST.

The State Board of Education and the Florida Statutes permit an institution president, under certain conditions, to grant a waiver from one or more of the CLAST sub-tests to students who repeatedly (at least four times) fail the sub-test(s) for which a waiver is requested. Before such a waiver may be approved by an institution president, the waiver must first have been recommended by a majority vote of the institutional committee established to review waiver requests.

The 1997 Legislature and the State Board of Education approved the following conditions under which any student may be exempt from the CLAST if the student fulfills one or more of the following requirements before completion of the undergraduate degree program. All exemptions are processed by the Registrar's Office.

Alternative based on the SAT 1 or EACT scores (or the equivalent scores on the original SAT and ACT score scales). An SAT 1 score of 500 on the Verbal section qualifies for an exemption for the essay, English language skills, and reading sub-tests; and a score of 500 on the Quantitative section qualifies for an exemption for the Mathematics sub-test. An EACT score of 21 on the Mathematics section qualifies for an exemption for the Mathematics sub-test; a score of 22 on the Reading section qualifies for an exemption for the reading sub-test; and a score of 21 on the English qualifies for an exemption for the English language skills and essay sub-tests.

Alternative based on the students' GPA. To exempt the English language skills, reading, and essay sections of the College-Level Academic Skills Test, the student must have earned a 2.5 grade point average in two courses for a minimum of six semester hours of credit from ENC 1101, English 1 and ENC 1102, English II or other equivalent college-level English courses. To exempt the Mathematics section of the College-Level Academic Skills Test, the student must have earned a 2.5 grade point average in two courses for a minimum of six semester hours of credit from:

Option 1- MAC 1105 or any other MAC course with the last three digits higher than 105; MGF 1106 or any other MGF course with the last three digits higher than 106; STA 1014 or any other STA course

Option 2- MGF 1113 Topics in College Mathematics I MGF 1114 Topics in College Mathematics II MGF 1118 Mathematics CLAST Review

Option 3- MGF 1113 Topics in College Mathematics I and MAC 1102 College Algebra

CLEP, IB, and AP College-Level Academic Skills Test is also available as a computer assisted test, the CAT CLAST, for the reading, English language skills, and mathematics sub-tests. If you are taking the entire CLAST for the first time, you should register for the on-campus administration. The essay section of the CLAST is available only once each semester through the on-campus administration. The CAT CLAST is offered at certain regional centers, and FIU students can be authorized in the Testing Office to take one or more sections of the CLAST on the computer.

University Learning Center
The University Learning Center is made up of academic assistance tutoring labs equipped to help students improve their academic skills and their performance in related courses. Included among these skills are reading, writing, English, mathematics, statistics, and training in learning/study skills. Special emphasis is given to those students who need or want assistance passing the College-Level
Academic Skills Test (CLAST) and other institutional or national tests.

The University Testing Office
The University Testing Office provides information and administers undergraduate and graduate admission tests, institutional tests, college placement tests, and the College-Level Academic Skills Test (CLAST). Information on post-secondary tests is available on the test information telephone line at (305) 348-2441.

The Academy for the Art of Teaching
The Academy for the Art of Teaching is a part of Undergraduate Studies, and is dedicated to supporting and advancing the quality of classroom teaching at FIU. It serves both as a resource to the teaching community—faculty, adjuncts, and graduate teaching assistants—and a source for proactive programming focused on enhancing approaches, methodologies and practices of teaching.

Through workshops, individual and departmental consultations, mini grants for research and development, and information dissemination, as well as collaborative programs with other FIU agencies such as the Library, Instructional Technology, and the Graduate Students Association, the Academy reaches out to all those who teach at FIU. Information and assistance can be obtained from the Director of the Academy at GL 120W or (305) 348-4214/3907.

Student Athlete Academic Center
The Student Athlete Academic Center provides a range of academic support services for student athletes—including advising, tutoring, and monitoring of academic progress. The Center is located west of the Golden Panther Arena, at the University Park Campus, and has hours of operation to meet the needs of the full-time student athlete. The Center is equipped with a computer laboratory, study carrels, and classrooms. It is staffed with advisors, tutors, and learning specialists. The unit works in conjunction with various university academic departments, as well as with other university support units to ensure the academic success of athletes. For information call (305) 348-6412.

Core Curriculum Requirements
The Core Curriculum requirements apply to all students entering the University with fewer than 36 semester hours. Students transferring with 36 semester hours or more must fulfill the University's General Education Requirements. All students subject to the Core are informed of additional policies governing these requirements in mandatory academic advising sessions provided by the Academic Advising Center of Undergraduate Studies (University Park PC 249, Biscayne Bay Campus ACI-180):

Freshman Experience (one course required)
SLS 1501 * Freshman Experience Course

English Composition (two courses required 'C' or higher required)
ENC 1101 Freshman Composition
ENC 1102 Literary Analysis
(Prerequisite: ENC 1101)

ENC 1101 and ENC 1102 must be completed before enrolling in other Gordon Rule courses.

Mathematics (two courses required, 'C' or higher required)
One course must be from the following list:
Note: MAC 1105 College Algebra and MAC 1114 Trigonometry are equal to MAC 2132)

MATH 1106 Finite Math
MATH 1107 Social Choice Math
MATH 2147 Pre-Calculus
MATH 2233 Calculus for Business
MATH 2311 Calculus I
MATH 2512 Calculus II

A second course may be chosen from the following list:

CSG 2060 Introduction to Microcomputers
CSG 2100 Computer Applications for Business
CSG 2420 Programming for Engineers
CSG 2423 C for Engineers
CP 2000 Computer Programming
PHI 2100 Introduction to Logic
STA 2000 Statistics

Natural Sciences (One biological science course and one physical science course required. Lecture and Lab must be taken concurrently)

Biological Science with Laboratory:
APB 2170 Introduction to Microbiology (3)
APB 2170L Introductory Microbiology Lab (1)
BOT 1010 Introductory Botany (3)
BOT 1010L Introductory Botany Lab (1)
BSC 1010 General Biology I (3)
BSC 1010L General Biology I Lab (2)
BSC 1011 General Biology II (3)
BSC 1011L General Biology II Lab (2)

BSC 2023 Human Biology (3)
BSC 2023L Human Biology Lab (1)
EVR 3015 Ecology of S Florida (3)
EVR 3013L Ecology of S Florida Lab (1)
GLY 1101 History of Life (3)
GLY 1101L History of Life Lab (1)
OCE 2003 Introductory Marine Biology (3)
OCE 2003L Marine Biology Lab (1)
PCB 2510 Introductory Genetics (3)
PCB 2510L Introductory Genetics Lab (1)
PCB 2700 Foundations of Human Physiology (3)
PCB 2700L Foundations of Human Physiology Lab (1)

Physical Sciences with Laboratory:
AST 2100 Solar System Astronomy (3)
AST 2100L Solar System Astronomy Lab (1)
AST 2201 Stellar Astronomy (3)
AST 2201L Stellar Astronomy Lab (1)
CHM 1032 Chemistry and Society (3)
CHM 1032L Chemistry and Society Lab (1)
CHM 1033 Survey of Chemistry (3)
CHM 1033L Survey of Chemistry Lab (1)
CHM 1045 General Chemistry I (4)
CHM 1045L General Chemistry I Lab (1)
EVR 1001 Introduction to Environmental Sciences (3)
EVR 1001L Introduction to Environmental Sciences Lab (1)
GLY 1010 Introduction to Earth Sciences (3)
GLY 1010L Introduction to Earth Sciences Lab (1)
GLY 3030 Environmental Geology (3)
GLY 3030L Environmental Geology Lab (1)
MET 2010 Meteorology & Atmospheric Physics (3)
MET 2010L Meteorology & Atmospheric Physics Lab (1)
PHY 1020 Understanding the Physical World (3)
PHY 1020L Understanding the Physical World Lab (1)
PHY 2048 Physics with Calculus (5)
PHY 2048L General Physics Lab (1)
PHY 2053 Physics without Calculus (4)

Arts (3 credits required)

General Information

ART 2020 Art History I (3)
ART 2021 Art History II (3)
ART 4470 Contemporary Art (3)
ART 4710 History of Photography (3)
ART 1202C 2D Design (3)
ART 1205C 3D Design (3)
ART 2150C Jewelry & Metals (3)
ART 2401C Printmaking I (3)


**General Information**

**Undergraduate Catalog**

**ART 2510C** Painting I (3)
**ART 2702C** Sculpture I (3)
**ART 3110C** Ceramics (3)
**ART 3163C** Glassblowing (3)
**ART 3310C** Drawing (3)
**ART 3331C** Figure Drawing II (3)

**CRW 2001** Introduction to Creative Writing (3)

**DAA 1100** Modern Dance Techniques I (2)
**DAA 1101** Modern Dance Techniques I-2 (2)
**DAA 1200** Ballet Techniques I (2)
**DAA 1201** Ballet Techniques I-2 (2)
**DAA 1500** Jazz Dance Techniques (2)
**DAA 2104** Modern Dance Techniques II (2)
**DAA 2105** Modern Dance Techniques II-2 (2)
**DAA 2204** Ballet Techniques II (2)
**DAA 2205** Ballet Techniques II-2 (2)
**DAN 2100** Introduction to Dance, (3)
**MUH 1011** Music Appreciation (3)
**MUH 2116** Evolution of Jazz (3)

**PGY 3410C** Photography (3)
**THE 2000** Theater Appreciation (3)
**TTP 2100** Introduction to Acting (3)

**Music Performance**

Permission of instructor and/or an audition are required for the following courses:

**MUN 1100** Golden Panther Band (1)
**MUN 1140** Symphonic Wind Ensemble (1)
**MUN 1210** Orchestra (1)
**MUN 1340** Sunblazer Singers (1)
**MUN 1380** University Singers (1)
**MUN 1430** University Brass Choir (1)
**MUN 1460** Chamber Music (1)
**MUN 1710** Studio Jazz Ensemble (1)
**MUN 2440** Percussion Ensemble (1)
**MUN 2450** Piano Ensemble (1)
**MUN 2480** Guitar Ensemble (1)
**MUN 2490** New Music Ensemble (1)
**MUN 2510** Accompanying (1)
**MUN 2711** Jazz Combo Class (1)

**Modern Languages**

Only intermediate levels can substitute for the Arts Requirement (2000-3000 level).

**ARA 3210** Intermediate Arabic (3)
**CHJ 3210** Intermediate Chinese (3)
**FRE 2200** Intermediate French (3)
**FRE 2241** Oral Communication Skills in French (3)
**FRE 2270** Foreign Study (var)
**GER 2210** Intermediate German (3)
**GRE 2200** Intermediate Classical Greek (3)
**HBR 2200** Intermediate Hebrew (3)
**ITA 2210** Intermediate Italian (3)
**JPA 3210** Intermediate Japanese (3)
**LAT 2200** Intermediate Latin (3)
**POR 2200** Intermediate Portuguese (3)

**RUS 2210** Intermediate Russian (3)
**SPN 2200** Intermediate Spanish (3)
**SPN 2210** Oral Communication Skills in Spanish (3)
**SPN 2230** Intermediate Reading in Spanish (3)
**SPN 2340** Intermediate Spanish for Native Speakers (3)

Any other modern language courses above the first-year level will also satisfy this requirement. Students entering the University without two years of foreign language in high school must complete two semesters of the same language at the beginners level, or pass CLEP exam or the SAT II Language proficiency test.

### Historical Foundations of Western Civilization

(One Gordon Rule course required, grade of 'C' or higher required)

**Prerequisites:** ENC 1101 and ENC 1102

**AMH 2000** Origins of American Civilization

**AMH 2002** Modern American Civilization

**EUH 2011** Western Civilization: Early European Civilization

**EUH 2021** Western Civilization: Medieval to Modern Europe

**EUH 2030** Western Civilization: Europe in the Modern Era

**LAH 2020** Latin American Civilization

**WOH 2001** World Civilization

### Critical Inquiry

(Oppone course required, grade of 'C' required. These are Gordon Rule courses. Prerequisites: ENC 1101 and ENC 1102)

**ENG 2012** Approaches to Literature

**HUM 3214** Ancient Classical Culture and Civilization

**HUM 3306** History of Ideas

**PHI 2011** Philosophical Analysis

**REL 2011** Religious Analysis

**SSI 3240** World Prospects and Issues

### Comparative Culture & Gender Studies

(One course required)

**AMH 3560** History of Women in the U.S.

**AMH 4570** African-American History

**ANT 3241** Myth, Ritual, and Mysticism (SS)

**ANT 3640** Language and Culture (SS)

**ANT 4273** Law & Culture (SS)

**ANT 4306** The Third World (SS)

**ANT 4451** Racism & Cultural Minorities (SS)

**COM 3461** Intercultural/Interracial Communications

**CPO 4034** The Politics of Development & Underdevelopment

**ECS 3003** Comparative Economic Systems (SS)

**FOW 3350** Bicultural Writing

**HUM 3225** Women, Culture & History

**HUM 3930** Female/Male: Women's Studies Seminar

**HUM 4491** Cultural Heritage & Cultural Change

**HUN 3191** World Nutrition

**LIN 4651** Gender & Language

**LIT 3383** Women in Literature

**PHI 3073** African Philosophy

**PHM 4123** Philosophy & Feminism

**POT 4309** Sex, Power & Politics (SS)

**REL 2300** Religion of the World

**REL 3091** Joseph Campbell and the Power of Myth

**REL 3145** Women & Religion

**REL 3170** Religion & Ethics

**REL 3178** Sex and Religion

**REL 3302** Studies in World Religions

**REL 3330** Religions of India

**SYA 4170** Comparative Sociology

**SYD 4700** Minorities Race and Ethnic Relations (SS)

**SYD 4704** Seminar in Ethnicity (SS)

**SYD 4810** Sociology of Gender

*(Completion of at least 24 credits is required to register for HUN 3191)*

### Social Sciences

(two courses required)

One course from this list required.

**ANT 2000** Intro to Anthropology

**ANT 3409** Anthropology of the Contemporary Society

**ECO 2013** Principles of Macroeconomics

**ECO 2023** Principles of Microeconomics

**EVR 1017** Global Environment And Society

**GEA 2000** World Regional Geography

**INR 2001** Introduction to International Relations

**INR 2002** Dynamics of World Politics

**POS 2042** American Government

**POT 2002** Introduction to Political Theory

**PSY 2026** Introduction to Psychology

**SYG 2000** Introduction to Sociology

**SYG 3002** Basic Ideas of Sociology
## General Education Requirements

The Florida Board of Education requires that all baccalaureate students complete 36 semester hours of general education requirements. For students entering the University with at least 36 semester hours, the requirement consists of six semester hours each in the areas of humanities, mathematics, natural science, and social science; and 12 semester hours of the Writing Requirement.

Students seeking a second baccalaureate degree will be exempt from the general education requirements if the first baccalaureate degree is from an accredited post-secondary institution of higher learning. However, this would not preclude prerequisites for the major that happen to be general education courses.

Only courses from the following list can fulfill the general education requirements at the University:

### State Board of Education Rule 6A-10.30 (Gordon Rule)

The State of Florida requires all public community colleges and universities to include a specified amount of writing and mathematics in their curriculum to ensure that students have achieved substantial competency in these areas. This requirement must be fulfilled within the first two years of study.

### Writing Requirement

(12 credits)

Students must successfully complete twelve hours of writing courses with a grade of 'C' or better. Six hours must be in composition courses (i.e., courses with the prefix ENC). The additional six hours must be taken in other courses in composition (with the ENC prefix) or in other approved courses each of which requires at least 6,000 words of written work. Students who matriculated prior to 1983 need only six credits of writing courses. The only approved courses are the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2000</td>
<td>Origins of American Civilization</td>
</tr>
<tr>
<td>AMH 2002</td>
<td>Modern American Civilization</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Freshman Composition (lower division students only)</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Literary Analysis (lower division students only)</td>
</tr>
<tr>
<td>ENC 1200</td>
<td>Business Letters and Reports</td>
</tr>
<tr>
<td>ENC 1930</td>
<td>Essay Writing</td>
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<tr>
<td>ENC 2210</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>ENC 2301</td>
<td>Expository Writing</td>
</tr>
<tr>
<td>ENC 3211</td>
<td>Report and Technical Writing</td>
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<tr>
<td>ENC 3311</td>
<td>Advanced Writing and Research</td>
</tr>
<tr>
<td>ENC 3317</td>
<td>Writing Across the Curriculum</td>
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<tr>
<td>ENC 4240</td>
<td>Report Writing</td>
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<td>ENC 4241</td>
<td>Scientific Writing</td>
</tr>
<tr>
<td>ENC 4930</td>
<td>Special Topics in Composition</td>
</tr>
<tr>
<td>ENG 2012</td>
<td>Approaches to Literature</td>
</tr>
<tr>
<td>EUH 2011</td>
<td>Western Civilization: Early European Civilization</td>
</tr>
<tr>
<td>EUH 2021</td>
<td>Western Civilization: Medieval to Modern Europe</td>
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<td>EUH 2030</td>
<td>Western Civilization: Europe in the Modern World</td>
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<td>HUM 3214</td>
<td>Ancient Classical Culture and Civilization</td>
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<td>Latin American Civilization</td>
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<td>PHI 2011</td>
<td>Philosophical Analysis</td>
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<tr>
<td>REL 2011</td>
<td>Religious Analysis</td>
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<tr>
<td>SSI 3240</td>
<td>World Prospects and Issues</td>
</tr>
<tr>
<td>WOH 2001</td>
<td>World Civilization</td>
</tr>
</tbody>
</table>

### Humanities (6 credits)

#### Art

- ARH 2050: Art History Survey I
- ARH 2051: Art History Survey II
- ART 1202C: 2D Design
- ART 1203C: 3D Design
- ART 2300C: Drawing

#### English

- AML 2011: Survey of American Literature I
- AML 2020: Survey of American Literature II
- AML 2602: African-American Literature
- ENG 2012: Approaches to Literature
- ENG 2100: Introduction to Film
- ENG 3138: The Movies
- ENG 4121: History of Film
- ENG 4132: Studies of Film
- ENL 2111: Survey of British Literature I
- ENL 2021: Survey of British Literature II
- LIN 2002: Introduction to Language
- LIT 2010: Introduction to Fiction
- LIT 2030: Introduction to Poetry
- LIT 2040: Introduction to Drama
- LIT 2110: World Literature I
- LIT 2120: World Literature II
- LIT 3200: Themes in Literature
- LIT 3383: Women in Literature

### AMH 2020: American History, 1850-1900

### AMH 3317: American and the Movies

### AMH 3560: History of Women in the U.S.

### AMH 4570: African-American History

### Humanities

- HUM 2512: Art and Society
- HUM 3214: Ancient Classical Culture
- HUM 3232: Renaissance and Baroque
- HUM 3246: The Enlightenment and the Modern World
- HUM 3304: Values in Conflict
- HUM 3306: History of Ideas
- HUM 3432: The Roman World
- HUM 3435: The Medieval World
- HUM 3545: Art and Literature
- HUM 4392: Human Concerns
- HUM 4406: Film and the Humanities
- HUM 4431: The Greek World
- HUM 4491: Cultural Heritages and Cultural Changes
- HUM 4543: Literature and Philosophy
- HUM 4544: Literature and the Humanities
- HUM 4555: Symbols and Myths
- HUM 4561: Ethics and the Humanities

### Liberal Studies

- LBS 4210: Women and Work in the US

### Modern Languages

- FRE 3500: History of French Civilization
- FRE 4501: Contemporary French Society
- FRW 3200: Introduction to French Literature
- POR 3500: Luso-Brazilian Culture
- SPN 3520: Spanish American Culture
- SPN 4500: Spanish Culture
- SPW 3820: Peninsular Spanish Literature

In addition, all elementary, intermediate, and advanced language courses.

### Music

- MUH 1011: Music Appreciation
- MUH 2116: Evolution of Jazz
- MUH 3211: Music History I
- MUH 3212: Music History II

### Philosophy

- PHH 3100: Ancient Philosophy
- PHH 3200: Medieval Philosophy
- PHH 3420: Early Modern Philosophy
- PHH 3440: Late Modern Philosophy
- PHH 4600: Twentieth Century Philosophy

### PHI 2011: Philosophical Analysis

### PHI 2600: Ethics

### PHI 3500: Metaphysics

### PHI 3762: Eastern Philosophical and Religious Thought

### PHM 3200: Social and Political Philosophy
### Religious Studies
- REL 2111 Religious Analysis
- REL 3100 Religion and Culture
- REL 3131 Sects and Cults
- REL 3170 Ethics in World Religions
- REL 3302 Studies in World Religions

### Theatre
- ORI 3000 Basic Oral Interpretation
- THE 2000 Theatre Appreciation
- THE 4110 Theatre History I
- THE 4111 Theatre History II
- THE 4370 Modern Dramatic Literature
- TPP 2100 Introduction to Acting
- SPC 2600 Public Speaking
- SPC 2016 Communication for Business

### Mathematics (6 credits)
One course must be at or above College Algebra level.

Students subject to Rule 6A.10.30 need six credits of mathematics, three of which can be a computer programming course, a statistics course, or PHI 2100, Introduction to Logic. A grade of ‘C’ or higher shall be considered successful completion of this requirement.

Students who matriculated prior to 1983 need only three credits of mathematics, but they must be in a mathematics course.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CGS 2060</td>
<td>Introduction to Microcomputers</td>
</tr>
<tr>
<td>CGS 2100</td>
<td>Computer Applications for Business</td>
</tr>
<tr>
<td>CGS 3420</td>
<td>Programming for Engineers</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MAC 1114</td>
<td>Trigonometry</td>
</tr>
<tr>
<td>MAC 2147</td>
<td>Pre-Calculus</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Business Calculus</td>
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<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MGF 1106</td>
<td>Finite Mathematics</td>
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<td>MGF 1107</td>
<td>Social Choice Math</td>
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<tr>
<td>PHI 2100</td>
<td>Introduction to Logic</td>
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<tr>
<td>STA 1013</td>
<td>Statistics for Social Services</td>
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<tr>
<td>STA 2122</td>
<td>Introduction to Statistics I</td>
</tr>
<tr>
<td>STA 3163</td>
<td>Statistical Methods I</td>
</tr>
<tr>
<td>QMB 3200</td>
<td>Application of Quantitative Methods in Business</td>
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### Natural Science: (6 credits)

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>APB 2170</td>
<td>Introductory Microbiology</td>
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<td>APB 2170L</td>
<td>Introductory Microbiology Laboratory</td>
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<tr>
<td>BOT 1010</td>
<td>Introductory Botany</td>
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<td>Introductory Botany Laboratory</td>
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<tr>
<td>BSC 1010</td>
<td>General Biology I</td>
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<tr>
<td>BSC 1010L</td>
<td>General Biology I Laboratory</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BSC 1011</td>
<td>General Biology II Laboratory</td>
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<tr>
<td>BSC 1011L</td>
<td>General Biology II</td>
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<td>BSC 2023</td>
<td>Human Biology I</td>
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<td>BSC 2023L</td>
<td>Human Biology Laboratory</td>
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<td>OCB 2003</td>
<td>Introductory Marine Biology</td>
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<td>Introductory Marine Biology Laboratory</td>
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<td>PCB 2016</td>
<td>Introduction to Genetics</td>
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<td>PCB 2099</td>
<td>Foundations of Human Physiology</td>
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<td>Foundations of Human Physiology Laboratory</td>
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<tbody>
<tr>
<td>CHM 1032</td>
<td>Chemistry and Society</td>
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<td>CHM 1032L</td>
<td>Chemistry and Society Laboratory</td>
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<td>CHM 1045</td>
<td>General Chemistry I</td>
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<td>CHM 1045L</td>
<td>General Chemistry I Laboratory</td>
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<td>CHM 1046</td>
<td>General Chemistry II</td>
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<tr>
<td>CHM 1046L</td>
<td>General Chemistry II Laboratory</td>
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<tr>
<td>CHM 2200</td>
<td>Survey of Organic Chemistry</td>
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<td>Survey of Organic Chemistry Lab</td>
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<tbody>
<tr>
<td>HUN 2201</td>
<td>Principles of Nutrition</td>
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<tr>
<td>HUN 3122</td>
<td>Nutrition and Culture</td>
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### Environmental Studies

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EVR 1001</td>
<td>Introduction to Environmental Science</td>
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<tr>
<td>EVR 1001L</td>
<td>Introduction to Environmental Science Lab</td>
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<tr>
<td>EVR 3010</td>
<td>Energy Flow in Natural and Man-made Systems</td>
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<tr>
<td>EVR 3011</td>
<td>Environmental Resources and Pollution</td>
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<tr>
<td>EVR 3013</td>
<td>Ecology of South Florida</td>
</tr>
<tr>
<td>EVR 4312</td>
<td>Energy Resources</td>
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### Geology

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<tr>
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<td>Physical Geography</td>
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<tr>
<td>GEO 2200L</td>
<td>Physical Geography Lab</td>
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<tr>
<td>GEO 3510</td>
<td>Earth Resources</td>
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<tr>
<td>GLY 1010</td>
<td>Introduction to Earth Science</td>
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<tr>
<td>GLY 1010L</td>
<td>Introduction to Earth Science Lab</td>
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<tr>
<td>GLY 1100</td>
<td>Historical Geology</td>
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<td>GLY 1100L</td>
<td>Historical Geology Lab</td>
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<td>GLY 1101</td>
<td>History of Life</td>
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<td>GLY 1101L</td>
<td>History of Life Lab</td>
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<td>GLY 3039</td>
<td>Environmental Geology</td>
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<td>GLY 3039L</td>
<td>Environmental Geology Lab</td>
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<tr>
<td>GLY 4650</td>
<td>Paleobiology</td>
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<td>OCE 3014</td>
<td>Oceanography</td>
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AST 2100</td>
<td>Solar System Astronomy</td>
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<tr>
<td>AST 2100L</td>
<td>Solar System Astronomy Lab</td>
</tr>
</tbody>
</table>

### Social Science (6 credits)

**Anthropology**
- ANT 2000 Introduction to Anthropology

**Economics**
- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics

**Education**
- CHD 4210 Middle Childhood and Adolescent Development

**Environmental Studies**
- EVR 1017 Global Environmental Society

**Criminal Justice**
- CCJ 3011 The Nature and Causes of Crime

**International Relations**
- GEA 2000 World Regional Geography
- GEO 3471 Political Geography
- INR 2001 Introduction to International Relations
- INR 3043 Population and Society
- INR 3081 Contemporary International Problems

**Journalism & Mass Communication**
- MMC 3602 Mass Media and Society

**Political Science**
- POS 2042 American Government

**Psychology**
- CLP 3003 Personal Adjustment
- CLP 4144 Abnormal Psychology
- CYP 3003 Introduction to Community Psychology
- DEP 2000 Human Growth and Development
- DEP 2001 Psychology of Infancy and Childhood
- DEP 3303 Psychology of Adolescence
- DEP 3404 Psychology of Adulthood
- DEP 4464 Psychology of Aging
- EAB 4794 Principles and Theories of Behavior Modification
- EXP 3304 Motivation and Emotion
- EXP 4605 Cognitive Processes
- INP 2002 Introductory Industrial/Organizational Psychology
- PPE 3003 Theories of Personality
- PSY 2020 Introductory Psychology
Transfer Credit
For purposes of clarity, transferability refers to the conditions under which the University accepts credits from other post-secondary institutions. Applicability of credit toward a degree refers to the prerogative of the respective academic division to count specific credit toward a student’s degree requirements. Normally, collegiate work will be considered for transfer credit only from post-secondary institutions that are fully accredited by a regional accrediting association. The Office of Admissions will evaluate the acceptability of total credits transferable to the University. Transfer credit will be applied as appropriate to a student’s degree program. The authority to apply such credit to the degree rests with the academic division of the student’s intended major. If a student chooses to transfer to another academic division within the University, credit previously earned at another post-secondary institution will be re-evaluated and applied as appropriate to the student’s new degree program. A maximum of 60 lower division semester hours taken at a two or a four-year institution may be counted toward a degree at the University. A maximum of 30 additional upper division semester hours taken at a senior institution may be counted toward a degree at the University. Lower division courses in excess of 60 semester hours may serve to meet specific course requirements for an FIU degree, but credit hours represented by these courses will not reduce the number of credit hours to be completed at the University. A grade of 'D' will be accepted for transfer credit although it may not satisfy specific requirements. However, such a grade in coursework in the major field is subject to review and approval by the appropriate academic department. Credit from institutions not fully accredited by a regional accrediting association will not be accepted; however, when presented, it will be considered on an individual basis by the appropriate College or School. Credit from military schools will be transferred in accordance with the recommendations of the American Council on Education. Credit from foreign institutions will be considered on an individual basis.

Academic Requirement
The academic requirements of the University are planned in such a manner that students may complete some of their degree requirements through one or more of the mechanisms listed below. Specific information on the accelerated mechanisms utilized in each academic program is available from the department or program of the student’s major.

Credit For Non-College Learning
The award of credit for learning acquired outside the university or classroom experience is the prerogative of each academic department or program. Only degree-seeking students are eligible to receive this type of credit. The significant learning must be applicable to the degree program of the student, and should be discussed and appropriately documented at the time the desired program of study is initially discussed and decided with the student’s program advisor. A maximum of 6 credit hours will be awarded.

College Level Examination Program (CLEP)
The College Level Examination Program is designed to measure knowledge in certain subject matter areas of general education. There are two types of CLEP tests: General Examination and Subject Examination.

Because CLEP credit is regarded as transfer credit, no matter how earned, the maximum transferability of credit under CLEP, both General and Subject examinations combined, is 45 semester credits.

Not more than six semester hours will be transferred in each of the five areas of the General Examination (English, humanities, mathematics, natural sciences, social sciences/history). It will count as elective credit.

For additional information on CLEP, contact the Office of Admissions.

Core Curriculum CLEP
The University awards credit for CLEP scores at the 50th percentile or higher. For students completing the Core requirements, only the following examinations will be recognized for credit. It is recommended that CLEP examinations be taken prior to enrollment at the University.

CLEP Subject Examinations
American Literature, Analysis and Interpretation of Literature, Calculus, English Literature, General Biology, General Chemistry, General Psychology, Introduction to Psychology, Introduction to Sociology, Macro Economics, Micro Economics, Modern Language.

General Education CLEP
The University awards credit for CLEP scores at the 50th percentile or higher. For students entering with more than 36 semester hours, the following CLEP general examinations may meet the General Education requirements:
English Composition with Essay: A student will be awarded up to six semester hours of credit for English, less hours previously earned in any college-level English course. The English examination must be with essay and will not count towards the English Composition requirement. These credits will only count toward elective credit.

Humanities: A student will be awarded up to six semester hours of credit if a satisfactory score is achieved.

Mathematics: A student will be awarded up to six semester hours of credit if a satisfactory score is achieved.

Natural Science: A student will be awarded up to three semester hours of credit in biology or physical science, or both, if a satisfactory score is achieved.

Social Science: A student will be awarded six semester hours of credit if a satisfactory score is achieved.

For additional information regarding the CLEP Subject Examinations, contact the University Testing Office.

Advanced Placement
The University awards credit for Advanced Placement test scores of three, four, and five. For students completing the Core Curriculum requirements, only the following examinations will be recognized for credit.


International Baccalaureate
The International Baccalaureate (IB) program is a comprehensive and rigorous two-year program leading to examinations. Based on the pattern of no single country, it is a deliberate compromise between the specializations required in some national systems and the breadth preferred in others. Florida International University recognizes the quality of the IB program and will award 6 semester hours of college credit to those students who score a 4, 5, 6, or 7 on each subject at the Higher level. Credit is also awarded for Subsidiary examinations with scores of 5, 6, or 7.

National Student Exchange
National Student Exchange provides students with the opportunity to exchange to one of 145 colleges and universities in the United States and its territories for one semester or academic year, while paying in-state tuition. Full credit is given for work satisfactorily completed on exchange. NSE offers the student the opportunity to live in a different geographic setting, explore a particular academic interest, and, of course, make new and lasting friendships with other students from all over the United States.

In order to participate in the National Student Exchange, students must be enrolled full-time and have a 3.0 cumulative GPA. For further information contact the Honors College in DM 233 at University Park, (305) 348-4100; or in Academic I 180 at the Biscayne Bay Campus, (305) 919-5754.

The Honors College
The Honors College offers a four-year program which focuses on interdisciplinary studies. The College is committed to curriculum integration in its approach to topics, resources and classroom practices. Every term Honors students complete one three-credit honors course toward fulfillment of the eight-semester program. In their senior year, students are given the option of completing a thesis/project in lieu of taking the two senior-year seminars.

Students will be selected to participate in the Honors College based on the following criteria:

- Incoming freshman: SAT or ACT scores, grade point average, and an application essay.
- Continuing FIU students: the application essay and grade point average.
- Transfer students with an A.A. from Florida community colleges may qualify for transfer scholarships and must complete the full application process including the essay, letters of recommendation, from previous instructors and a current official transcript.

For further information, contact The Honors College, DM 233, (305) 348-4100 or see the section titled "The Honors College" in this catalog.

Pre-Medical Advisement
For their initial advisement, students interested in entering professional schools of medicine, dentistry, optometry, or veterinary medicine should contact either the Department of Biology, OE 246, (305) 348-2201, or the Department of Chemistry, OE 200, 348-2606, at University Park at the earliest possible time. After completing a substantial portion of their professional courses or at the end of their junior year, and prior to the Fall Term in which they plan to apply to professional schools, students should contact the Chairperson of the Premedical Advisement and Evaluation Committee in the College of Arts and Sciences. The Committee provides additional advisement for students wishing to enter the health professions and prepares recommendations for those applying to professional schools.
The Office of the Registrar is responsible for directing the University's registration activities, and establishing, maintaining, and releasing students' academic records. The office is also responsible for Space and Scheduling, Enrollment Certification, Veterans Affairs, Graduation, and the Student Academic Support System (SASS). The office also produces the schedule of classes and the University catalogs.

Staff in the Office of the Registrar are responsible for assisting students, faculty, other administrative offices, and the general public; to holding safe and preserving the confidentiality of the students' records; and ensuring the integrity of the University's academic policies and regulations.

The University Park office is located in PC 130, 348-2320; the Biscayne Bay Campus office is located in ACI-100, 919-5750; and the Broward Programs at the Pines Educational Center, (954) 538-3608.

Classification of Students

The University classifies students as follows:

Degree-Seeking Students

This category includes students who have been admitted to a degree program, but have not completed the requirements for the degree.

Freshmen - Students who have earned fewer than 30 semester hours.

Sophomores - Students who have earned at least 30 semester hours but fewer than 60 semester hours.

Juniors - Students who have earned at least 60 semester hours but fewer than 90 semester hours.

Seniors - Students who have earned 90 or more semester hours but who have not earned a baccalaureate degree.

Non-Degree Seeking Students

These students may be either affiliated or unaffiliated in their status. Unaffiliated students are limited to taking one semester of courses at the University. Affiliated students must be approved by the appropriate College or School and must meet its specific requirements. Under no circumstances may more than 15 hours, taken as a non-degree seeking student, be applied toward graduation requirements at the University, if the student changes from non-degree seeking to degree-seeking status.

The following regulations apply to non-degree seeking students:

1. Students are not required to meet the usual admission requirements and are not officially admitted as regular students. Enrollment as a non-degree seeking student does not imply a right for future admission as a regular, degree-seeking student. Credit earned will not be counted toward a degree at the University unless such students subsequently apply for regular admission and are accepted as undergraduate or graduate students.

2. Registration is permitted on a space-available basis and is determined at the time of registration. Non-degree seeking students may not register during the official registration week for degree-seeking students.

3. No more than 15 undergraduate level semester hours earned as a non-degree seeking student may be counted toward a degree. The appropriate dean must approve the acceptance of such credit.

4. Non-degree seeking students will not be allowed to register for more than one term without obtaining admission to a degree program at the University, or obtaining admission into a formal certificate program, or acquiring affiliated status from the department in which they are registering.

5. Applicants denied admission to the University will not be allowed to register as non-degree seeking students for a period of one year without obtaining admission into a formal Certificate Program or obtaining affiliated status from the appropriate academic department.

6. Immigration regulations prevent most foreign nationals from enrolling without being admitted into a formal degree or certificate program, depending on the visa type. Therefore, international students cannot enroll as non-degree seeking students.

Affiliated Students

Students applying for affiliated status as non-degree seeking students must be approved by the appropriate dean in accordance with criteria approved by that College or School's Faculty Curriculum Committee.

Transient Students

This category includes students who are fully admitted and are actively pursuing a degree at another accredited two or four year institution. Such students need to present evidence of their status each semester before they will be allowed to register.

Certificate Students

This category includes students who have been accepted into a specific certificate program by the academic department responsible for that program. Certificate programs are subject to all University regulations.

College/Major Classification

Lower division students have a college designation of lower division with a major designation of their intended major (if indicated by the student). This does not imply subsequent admission to that degree program.

Degree-seeking upper division students admitted to an upper level degree program are classified according to the college or school and major of their degree program, and when applicable, to the college or school and major of their second major.

When admitted students reach a total of 60 or more credit hours (including transfer and current enrollment), they may apply for admission into an upper division major, provided they have passed the CLAST or met the necessary requirements for CLAST exemption. All degree-seeking undergraduates must be admitted into an upper division major prior to completing 75 credit hours, including transfer hours.

Academic Degree Requirements

Bachelor's Degree

The University will confer the bachelor's degree when the following conditions have been met:

1. Recommendation of the faculty of the College or the School awarding the degree.

2. Certification by the dean of the College or the School concerned that all requirements of the degree being sought have been completed.

3. A minimum of 120 semester hours in acceptable coursework is required for the Bachelor's degree.

4. Completion of the last 30 credit hours at the University. Exceptions
5. Completion of the General Education Requirements or, in the case of students admitted with fewer than 36 transfer hours, the Lower Division Core Curriculum.
6. Earned a cumulative GPA of 2.0 or higher at the University.
7. Earn the grade requirements for major, core courses, and course sequences established by the appropriate College or School.
8. Satisfactory completion of the College Level Academic Skills Test (CLAST) requirement.
9. Completion of 8-10 sequential credits in one foreign language (American Sign Language is acceptable). Students who entered the University with a foreign language requirement deficiency, regardless of whether the student holds an A.A., must now complete 8-10 sequential credits in one foreign language. Transfer credit is applicable to the requirement, and exemption by CLEP examination is available. Also, students who completed two years of high school foreign language study in one language are considered to have met the requirement.
   a. Students who can demonstrate continuous enrollment in a degree program at an SUS institution or Florida Community College since Fall Term, 1989 (continuous enrollment is defined by the state to be the completion of at least one course per year) will be exempt from this requirement.
   b. Also exempt are students holding an A.A. degree from a Florida Community College or SUS institution prior to Fall Term, 1989.

Two Bachelor Degrees
Two bachelor degrees may be awarded simultaneously when the following conditions have been met:
1. Requirements for two majors have been completed as certified by the appropriate academic units.
2. A minimum of 30 appropriate semester hours in addition to the requirements of one degree has been earned.

A graduate from an accredited four-year institution who applies for admission to work toward a second bachelor’s degree must meet the requirements of the major department which shall include (but is not limited to) a minimum of 30 semester hours of coursework.

Two Majors for a Bachelor’s Degree
Any undergraduate student who elects to do so may carry two majors and work to fulfill the requirements of both concurrently. Upon successful completion of the requirements of two majors, the student will be awarded one degree and a notation denoting both majors will be entered on the transcript. A Request for Second Major form must be filled out in the Office of the Registrar to declare two majors.

Minors and Certificate Programs
Students who have completed an approved minor as part of their baccalaureate degree program will have this notation as a part of the degree comment on their transcript.

Students who have completed an approved certificate program will have an appropriate notation placed on their transcript.

Associate in Arts
Students who satisfactorily complete 60 semester hours of acceptable college work with an overall GPA of 2.0 or higher, fulfill the Lower Division Core requirements, pass the College Level Academic Skills Test (CLAST) and complete at least 20 credit hours in residence at the University may apply for the Associate in Arts degree. Students who transfer in 36 or more credits are not eligible to apply. The degree will not be awarded after completion of the baccalaureate degree. A notation will appear on the student’s transcript but no diploma will be issued.

Summer Enrollment
All students entering any University within the Florida State University System with fewer than 60 credit hours shall be required to earn at least nine credit hours prior to graduation by attending one or more summer terms at a Florida State University.

Academic Definitions
Program and Course Regulations
Credit Hour
The term credit hour as used refers to one hour of classwork, or the equivalent, each week for an entire academic term.

Major
An integral part of the bachelor’s degree is a major concentration of coursework in an approved academic discipline or area. The exact course and credit requirements and prerequisites for each major are outlined in the departmental program areas in the catalog.

Electives
Students may select courses from any academic area to complement their area or areas of study or to meet their interests in order to fulfill the credit hour requirements for the bachelor’s or master’s degree. Prerequisite course requirements should be considered in selecting elective courses. Students should refer to their academic program requirements concerning electives.

Minor Program
A minor program is an arrangement of courses that enables students to develop some degree of expertise in one area of study. A minor is awarded upon completion of the bachelor’s degree, but is not interdisciplinary in nature.

Certificate Program
A certificate program is a combination of courses with a common base or interest selected from one or more academic disciplines and so arranged as to form an area of academic concentration. Three types of certificates are awarded: academic, professional, and continuing studies. Students must apply and be admitted into the professional certificate program.

Change of College/School or Major
A fully admitted undergraduate student can change majors, provided he or she meets the entrance requirements of the new program, by submitting a Request for Change of College/School or Major form. The form and instructions are available in the Office of the Registrar. The student is subject to the program requirements in effect at the time of the change of major.

Registration
The following registration information is subject to change and students must verify the dates with the Office of the Registrar, PC 130, University Park; or ACI-100, Biscayne Bay Campus; or at the Pines Educational Center, (954) 538-3608
All students, degree and non-degree seeking, registering for more than 18 credit hours during one semester must obtain the approval and the signature of the dean of their College or School. Registration for courses is as follows:

**Official Registration** is held during the preceding semester (check the Academic Calendar for the dates) and ends one week later. Degree-seeking students are given an appointment day and time based on their classification, GPA, and credit hours completed. Students may add/drop at this time.

**Open Registration** is held following Official Registration. There is no appointment day and time and registration is on a first-come, first-served basis. All students who have not yet registered are encouraged to do so at this time. Students who have already registered may also add or drop courses during this period.

**Telephone/Web/Kiosk Registration**

All students are able to retrieve their grades, registration appointment time and day; classroom assignments; registration holds (if any) and to register/add/drop courses using a touch tone telephone, (305) 348-1500, the World Wide Web (http://sis.fiu.edu), or the on-campus kiosks. Students must obtain their personal identification number (PIN) in order to utilize these systems.

**Immunization**

To register for courses, students, under the age of 40, must provide the University Health Care and Wellness Center, University Park; HM 110, Biscayne Bay Campus with documentation of immunization against measles and rubella. Students should contact the Health Care and Wellness Center for more information at 348-2401 or at 919-5620.

**Late Registration Fee**

Any student, degree-seeking or non-degree seeking, who initiates registration after the registration deadline is assessed a $100.00 late registration fee. Students may initiate late registration during the first week of classes.

**Dropping and Adding Courses**

The Official Drop/Add period runs throughout the first week of classes (check the Academic Calendar for specific dates). During this period a student may drop or add courses without financial penalty or initiate registration with financial penalty (the late registration fee). Students may also drop courses or withdraw from the University with no record of enrollment and without a tuition fee liability. Students may submit a drop/add form to the Office of the Registrar or use the Telephone Registration System, the World Wide Web (http://sis.fiu.edu), or the on-campus kiosks to officially drop a course. If the tuition fee has already been paid, a refund will be generated by the Cashier’s Office and mailed to the local address on file.

**Late Adds**

Students may add courses with appropriate authorization and signatures until the end of the third week of classes. No course can be added after this deadline.

**Late Drops**

Courses officially dropped after the Drop/Add period and through the eighth week of the term, (summer terms have different deadlines - check the Academic Calendar for specific dates), are recorded on the student’s transcript with a grade of ‘DR’ (dropped). The student is financially liable for all dropped courses. Students must drop courses using the telephone system (305) 348-1500, the World Wide Web (http://sis.fiu.edu), the on-campus kiosks, or in person at the Office of the Registrar. Non-attendance or non-payment will not constitute a drop.

A student may appeal the deadline for a late drop by submitting the Appeal to Drop/Withdraw Without Refund form. A drop after the deadline will be approved only in cases where circumstances beyond the student’s control make it impossible for the student to continue. The student must provide appropriate documentation. Upon approval of the appeal, the course instructor will designate whether the student was passing or failing the course at the time of the appeal to drop form was submitted. A ‘DP’ grade indicates the student dropped the class with a passing grade. A ‘DF’ grade indicates the student dropped the class with a failing grade. The ‘DF’ grade is calculated in the student’s term and cumulative GPA. The deadline to submit appeals is one year after the end of the term in which the course was taken.

**Withdrawal from the University**

A currently registered student can withdraw from the University only during the first eight weeks of the semester. In the Summer semester, withdrawal deadlines will be adjusted accordingly. A Withdrawal Form must be completed and submitted to the Office of the Registrar. Non-attendance or non-payment will not constitute a withdrawal. (Refer to the Academic Calendar for the deadline dates.)

The transcript of a student who withdraws before or during the first week of classes will contain no record of enrollment and no tuition fee will be assessed. If the tuition has already been paid, a refund will be generated by the Cashier’s Office and mailed to the local address on file. If a student withdraws from the University prior to the end of the fourth week of classes, a 25 percent refund, will be issued.

The transcript of a student who officially withdraws after the Drop/Add period and before the end of the eighth week of the term will receive a ‘WI’ for each course.

The transcript of a student who stops attending the University without officially withdrawing from the University will receive an ‘F’ grade for each course.

A student may appeal the deadline for a late withdrawal (from all courses) by submitting the Appeal to Drop/Withdraw Without Refund form. A withdrawal after the deadline will be approved only in cases where circumstances beyond the student’s control make it impossible for the student to continue. The student must provide appropriate documentation. Upon approval of the appeal, course instructors will designate whether the student was passing or failing the courses at the time of the appeal to withdraw. A ‘WP’ grade indicates the student withdrew from classes with a passing grade. A ‘WF’ grade indicates the student withdrew from the classes with a failing grade. The ‘WF’ grade is calculated in the student’s term and cumulative GPA. The deadline to submit this appeal is one year after the end of the term in which the course was taken.
To register for an audit, the student must obtain the permission and signature of the instructor of the course to be audited. Once the course is registered for as ‘Audit’, the grading option cannot be changed.

**Incomplete Grade**

An incomplete grade is a temporary symbol given at the discretion of the instructor for work not completed, because of serious interruption not caused by the student’s own negligence. An incomplete must be made up as quickly as possible but no longer than two consecutive semesters after or it will automatically default to the grade that the student earned in the course. There is no extension to the two consecutive semester deadline. The student must register again for the course to make up the incomplete.

Students who receive an incomplete grade and have applied for graduation at the end of that term, must complete the incomplete grade by the end of the fourth week of the following term. Failure to do so will result in a cancellation of graduation. The student will need to reapply for graduation.

**Forgiveness Policy**

The forgiveness policy is a method by which students may repeat a limited number of courses to improve their grade point average (GPA). Only the grade received on the last repeat is used in the GPA calculation. Under the University’s forgiveness policy, students may file a Requested Course Form with the Office of the Registrar. There is no time limit on the use of the forgiveness policy for grades; however, the forgiveness policy cannot be used once a degree is posted. All courses taken with the grades earned will be recorded on the student’s transcript. The repeated course form will not be processed if the first or repeated grade received is ‘DR’, ‘DP’, ‘IF’, ‘W’, ‘WI’, ‘WP’, ‘AU’, ‘NR’, or ‘EM’. Repeated courses will be appropriately designated (T: attempted; R: last repeat).

Undergraduate students may use the forgiveness policy a maximum of three times for the purpose of improving the GPA. The same course may be repeated up to three times or the student may use the three opportunities to apply to three different courses. Only the final grade for the three courses repeated under the forgiveness policy will be counted in computing the student’s GPA. In order for a course to be considered as repeated and adjusted in the GPA, the course must be the same and must be repeated at the University. Students who have used their three options under the forgiveness policy may still repeat courses; however, both the original grade and any additional, grades received through repetitions of the course will be used in computing the GPA.

A course taken on a letter grade basis must be repeated on the same basis. Students will not be allowed additional credit or quality points for a repeated course unless the course is specifically designated as repeatable (independent study, studio courses, etc.). Students not using the forgiveness policy may still repeat a course. All attempts will apply to computation of the GPA but credits for one attempt will apply toward graduation. Students must check with the appropriate academic department to determine whether there are additional restrictions on repeating courses.

**Departmental Credit by Examination**

Departmental credit by examination is available for certain courses. A student who has already gained knowledge of a subject offered at the University and who wishes to take an examination in lieu of taking the course should discuss the matter with his/her academic advisor and with the department offering the course.

Awarding departmental credit by examination is the prerogative of each academic unit. To receive credit by examination, a student must be a regular degree-seeking student, register, and pay for the courses. Once the student is awarded the departmental credit by examination, an ‘EM’ grade will be recorded on the transcript.

**Change or Correction of Grades**

Once submitted, end-of-semester grades (except incompletes and NRs, which default at the end of two consecutive terms) are final. They are subject to change only through a Change of Grade form to correct an error in computation or transcribing, or where part of the student’s work has been unintentionally overlooked.

**Final Examinations**

Final examinations will be given during the week following the last day of classes each semester. The Summer Semesters do not have final examination periods and course examinations may be given at the...
Final Grades

Final grades are available over the Telephone Registration System at (305) 348-1500, the World Wide Web (http://sis.fiu.edu), or through the on-campus kiosks.

Dean's List

Any fully admitted undergraduate student who earns a semester average of 3.5 or higher on nine or more semester credit hours of coursework for which grade points are earned, is placed on the semester Dean's List. This achievement is noted on the student's permanent academic record (transcript).

Application for Graduation

Students who plan to graduate are required to submit to the Office of the Registrar an Application for Graduation form. This form must be submitted before the last day of classes of the academic semester prior to graduation. Students turning in the Application for Graduation after the deadline will graduate the following semester. There is no charge for applying for graduation.

Students who do not graduate must re-apply for graduation and complete the remaining requirements needed to graduate.

Academic Honors

Summa Cum Laude
To graduate Summa Cum Laude, a student must have earned a cumulative FIU GPA of 3.90 and higher.

Magna Cum Laude
To graduate Magna Cum Laude, a student must have earned a cumulative FIU GPA of 3.70 - 3.899.

Cum Laude
To graduate Cum Laude, a student must have earned a cumulative FIU GPA of 3.50 - 3.699.

To graduate with the above honors, the student must have completed a minimum of 40 semester hours of coursework for which grade points are earned at the university.

Academic Warning, Probation, and Dismissal

Warning
An undergraduate student whose cumulative GPA falls below 2.0 will be placed on warning, indicating academic difficulty.

Probation
An undergraduate student on warning whose cumulative GPA falls below 2.0 will be placed on probation, indicating serious academic difficulty. The College/School of the student on probation may indicate the conditions which must be met in order to continue enrollment.

Dismissal
An undergraduate student on probation whose cumulative and semester GPAs fall below a 2.0 will automatically be dismissed from his/hers program and the University. An undergraduate student will not be dismissed prior to attempting a minimum of 20 semester hours of coursework. The student has ten working days to appeal the dismissal decision. This appeal must be made in writing to the dean of the College or the School in which the student is admitted. The dismissal from the University is for a minimum of one year. After one year, the student may apply for re-admission (see Re-admission) to the University in the same or a different program, or register as a non-degree seeking student.

Dismissed students applying for admission or registering as non-degree seeking students are placed automatically on academic probation.

Student Records

Florida International University assures the confidentiality of student educational records in accordance with State University System rules, state, and federal laws including the Family Educational Rights and Privacy Act of 1974, as amended. Student academic records are maintained in the Office of the Registrar and in the academic department of the student's major. All currently enrolled and former students have the right to review their records to determine their content and accuracy. Parents of dependent students, as defined by the Internal Revenue Code, and who give evidence of the dependent status, have the same rights. For the cost of photocopying, students may generally have copies of any documents in their file, except for other institutions' transcripts.

Release of Student Information from Educational Records

The disclosure or publication of student information is governed by policies of Florida International University and the Florida Board of Education of the State University System of Florida within the framework of State and Federal Laws, including the Family Educational Rights and Privacy Act of 1974, as amended.

A student's consent is required for the disclosure or publication of any information which is a) personally identifiable and b) a part of the educational record. However, certain exceptions to that generality, both in types of information which can be disclosed and in access to that information, are allowed within the regulations of the Family Educational Rights and Privacy Act. The following persons and organizations may have access to personally identifiable information without a student's prior consent:

Faculty, administrators, staff and consultants employed by the University or the Board of Regents whose work involves:
1. Performance of administrative tasks which relate to students;
2. Performance of supervisory or instructional tasks which relate to students;
3. Performance of services which benefit students.

A student's prior consent is not required for disclosure of portions of the educational record defined by the institution as Directory Information. The following Directory Information may be released by the University:
1. Name, local and permanent address and telephone number(s);
2. Date and place of birth, and sex;
3. Classification and major and minor fields of study;
4. Participation in officially recognized activities and sports;
5. Weight and height of members of athletic teams;
6. Dates of attendance, degrees and awards received;
7. The most recent previous educational agency or institution attended by the student; and
8. Photographic image.

The information above, designated by the University as Directory Information, may be released or published by the University without a student's prior written consent unless exception is made in writing by the student or the parents of a dependent student.

In order to prevent access to or release of Directory Information,
students or the parents of dependent students, must notify the Registrar (PC 130), in writing prior to the first class meeting day of the semester. Access to, or release of Directory Information will be withheld until further written instruction is received from a student or the parents of a dependent student.

Students have a right to challenge the accuracy of their educational records and may file written requests to amend these records. The Office of the Registrar (PC 130) should be contacted for further information regarding the procedure to follow for questions or problems.

For complete information regarding the policies outlined above, please contact:

University Registrar
Florida International University
University Park - PC 130
Miami, Florida 33199

e-mail: Register@fiu.edu

Student Social Security Numbers

FIU expects all students to have a valid social security number. Enrolled students who do not have one will have three months to provide the Registrar's Office with proof of a valid social security number. Foreign students are encouraged to apply for a Social Security Number if they plan on working on campus. However, it is not required for enrollment purposes.

Transcripts

The transcript is the complete student record of courses taken at the University, in addition to the number of transfer credits accepted. The GPA is calculated for all courses taken at the University after Fall Term 1975. Once a baccalaureate, master’s, or doctorate degree is earned, the GPA calculation starts again.

Students must request their transcript in writing. There is a 48-hour processing period. The transcript will not be released if the student has a University financial liability and/or a defaulted student loan. There is $5.00 charge per transcript.

Class Attendance

The University does not have an attendance policy. However, individual faculty may establish attendance criteria in classes where deemed necessary. Academic units may establish their own attendance policies with the approval of the Provost.

Policy Statement with Reference to Religious Holy Days

A faculty member who wishes to observe a religious holy day shall make arrangements to have another instructor conduct the class in his/her absence, if possible, or shall reschedule the class.

Because there are some classes and other functions where attendance may be considered essential, the following policy is in effect:

1. Each student shall, upon notifying his/her instructor, be excused from class to observe a religious holy day of his/her faith.

2. While the student will be held responsible for the material covered in his/her absence, each student shall be permitted a reasonable amount of time to make up any work missed.

3. No major test, major class event, or major University activity will be scheduled on a major religious holy day.

4. Professors and University administrators shall not arbitrarily penalize students who are absent from academic or social activities because of religious observances.

Veterans Information

The Office of Veterans Affairs assists all veterans and their dependents who wish to receive VA educational benefits. The Office also provides personal counseling, fee deferments, tutorial assistance, and work-study jobs. The VA Office is located in PC 156, University Park; and in ACI-100, Biscayne Bay Campus.

Veterans who are planning to attend the University should contact the Office of Veterans Affairs two months prior to the date of entry. Such time is required to expedite the processing of paperwork for educational allowances from the Veterans Administration.

Training Status

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<td>1/2 time</td>
<td>6</td>
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<tr>
<td>Less than 1/2 time</td>
<td>5 Credits</td>
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Rate of Payments/Number of Dependents

For rate of monthly payment of educational allowances for veterans and dependents, please contact Office of Veterans Affairs.

For additional information regarding other Veterans Educational Programs, contact the Office of Veterans Affairs at University Park, PC 156, 348-2838.

Enrollment Certification

The Office of the Registrar is responsible for certification of student enrollment. Certification cannot be processed if the student has a financial liability.

Enrollment Status

Undergraduate:

Full time: 12 credits or more.
Half time: 6 - 11 credits.
Less than half time: 5 credits or less.

Enrollment status is for continuous enrollment for the semester in which the student attended. Reduction of course load will reflect the student’s status. Contact the Office of the Registrar for further details.

Florida Residency Information

Florida Student Definition

For the purpose of assessing registration and tuition fees, a student shall be classified as a Florida or non-Florida Resident.

To qualify as a Florida Resident, the student must:

1. Be a U.S. Citizen, Resident Alien, paralee, Cuban National, Vietnamese Refugee, or other legal alien so designated by the U.S. Immigration and Naturalization Service.

2. Have established a legal residence in this State and have maintained that legal residence for 12 months immediately prior to the start of the term in which the student is seeking Florida resident classification. The student’s residence in Florida must be as a bona fide domiciliary rather than for the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education, and should be demonstrated as indicated below (for dependent students as defined by IRS regulations, a parent or guardian must qualify).

3. Submit the following documentation (or in the case of a dependent student, the parent must submit documentation), prior to the last day of registration for the term for which resident status is sought:

   a. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:

      (1) Declaration of Domicile


(2) Proof of purchase of a home in Florida which the student occupies as his/her residence.

(3) Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment record).

b. Documentation establishing bona fide domicile in Florida which is not temporary or merely incident to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered conclusive evidence of domicile (these documents must be dated at least one year prior to the first day of classes of the term for which Florida resident status is sought):

   (1) Declaration of Domicile
   (2) Florida voter's registration
   (3) Florida driver's license
   (4) Proof of real property ownership in Florida (e.g., deed, tax receipts).
   (5) Employment records or other employment related documentation (e.g., W-2, paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment.
   (6) Proof of membership in or affiliation with community or state organizations or significant connections to the State.
   (7) Proof of continuous presence in Florida during the period when not enrolled as a student.
   (8) Proof of former domicile in Florida and maintenance of significant connections while absent.
   (9) Proof of reliance upon Florida sources of support.
   (10) Proof of domicile in Florida of family.
   (11) Proof of admission to a licensed practicing profession in Florida.
   (12) Proof of acceptance of permanent employment in Florida.
   (13) Proof of graduation from high school located in Florida.
   (14) Any other factors peculiar to the individual which tend to establish the necessary intent to make Florida a permanent home and that the individual is a bona fide Florida resident, including the age and general circumstances of the individual.

c. No contrary evidence establishing residence elsewhere.

d. Documentation of dependent/independent status (IRS return or affidavit)

A student can also qualify for Florida residency by one or more of the following criteria:

1. Become a legal resident and be married to a person who has been a legal resident for the required twelve-month period, or,
2. Be a member of the Armed Forces on active duty stationed in Florida, or a spouse or dependent, or,
3. Be a member of the full-time instructional or administrative staff of a state public school, state community college or state University in Florida, a spouse or dependent, or,
4. Be a dependent and have lived five years with an adult relative who has established legal residence in Florida, or,
5. Be a former student at a public institution of higher education who was properly classified as a resident who re-establishes domiciliary status and re-enrolls within a period of twelve months, or,
6. Make a statement as to the length of residence in Florida and qualification under the above criteria.

**Term Courses Are Offered**

Listed next to certain courses in this catalog are the designations 'F', 'S', and 'SS'. These designations indicate that the academic department normally offers these courses during the 'F' (Fall), 'S' (Spring), 'SS' (Summer) terms. Students should be aware that there are circumstances beyond the University's control (low enrollments, financial constraints, or other extenuating situations) which may result in the courses not being offered as indicated. The University is not responsible for failure to offer a course as indicated.
Financial Aid

What is Financial Aid?
Financial aid is a source of financial support provided by various agencies (federal, state and local governments, universities, community organizations, and private corporations or individuals) to help students meet the cost of attending college. It includes gift-aid (grants and scholarships) and self-help aid (loans and student employment).

- Grants are awarded based on financial need which do not have to be repaid.
- Scholarships are non-repayable awards based either on merit, special talent and/or financial need.
- Student loans are available to students and/or their parents at low interest rates (5 to 11%).
- Student employment allows students to earn money toward their education by working part-time while attending school.

Applying for Assistance
Applications for financial assistance are available in January for the following academic year which begins in August. The Free Application for Federal Student Aid (FAFSA) is the form used to apply for most types of financial assistance. FIU’s school code 009635 is required when completing the FAFSA. The FAFSA is available in two forms: electronic and paper. To complete the FAFSA electronically via the internet, the web site address is: www.fafsa.ed.gov and the paper form is available from the FIU’s Financial Aid Office. Financial Aid applications are not reviewed until ALL documents required to complete the file are received in the Financial Aid Office.

Students whose files are completed accurately by the priority deadline of March 1, 2003 will receive priority consideration for limited Federal, State, and Institutional funds. Files completed after this deadline will be processed in order of completion date. Most required documents for file completion are available through the Financial Aid Office web page: www.fiu.edu/orgs/finaid.

Admissions: To be eligible for most financial aid programs, students must be admitted to a degree program. However, students should not wait until they are admitted to apply for assistance. Students who enroll in qualified Certificate Programs are only eligible for student loans.

Summer Assistance: Student loans are the primary source of assistance for Summer enrollment. Request forms for Summer assistance are available after January 31, 2003.

Transfer Student Procedures: Financial aid cannot be transferred from one post-secondary institution to another during the academic year. Students planning to transfer in mid-year, should apply to both their current institution and Florida International University to ensure consideration for all applicable financial assistance.

Eligibility Criteria
To qualify for most need-based financial assistance, students must meet the following basic eligibility requirements:
- demonstrate financial need;
- be a U.S. citizen or eligible non-citizen;
- be registered with Selective Service, if required;
- not be in default on a loan, or owe a repayment on Title IV aid received at any institution;
- be enrolled at least half-time in an eligible program of study; and,
- maintain satisfactory academic progress.

Additional requirements may apply depending on the aid programs awarded.

Determining Financial Need
Financial need is defined as the difference between the estimated cost of attendance and the amount students and their families can reasonably be expected to contribute towards their educational expenses. Need analysis is a federally mandated formula which measures, in an equitable and systematic way, how much students and their families can afford to pay towards their education. Income, assets (excluding their primary residence), family size, number of family members attending college, and other items are evaluated to give a complete assessment of a family’s financial strength.

Awarding Procedures
Award decisions for new students who complete their financial aid application by the priority deadline will be issued by April 15, 2003. A financial aid package may consist of a combination of grants, loans, and work funds. Other sources of assistance such as merit awards and private and institutional scholarships will be taken into consideration when preparing the award.

Sources of Assistance
The University participates in all Federal and State funded programs. Institutional assistance is available for students with academic promise and financial need.

Academic Merit Assistance: The University’s commitment to academic excellence is highlighted through programs which honor students who are recognized as National Merit, National Achievers and National Hispanic Scholars. Additional awards for outstanding high school seniors include the Presidential Scholarship Academic Excellence, Valedictorian and Salutatorian Scholarships. For detailed information regarding these programs, contact the Office of Admissions at (305) 348-1500.

Financial Aid Services
- Financial Aid Counseling: A Financial Aid Administrator is available without an appointment to assist students with special problems, technical questions, exceptions, etc.
- Web and Voice System Access: Students may obtain information on the status of their application through the Financial Aid Office web page at www.fiu.edu/orgs/finaid or by calling the Financial Aid Office Voice Response System (VRS), 305-348-1500. The student’s FIU PIN# is required to access personal information.
- E-Mail Access: Students may also communicate with the Financial Aid Office electronically at the following e-mail address: finaid@fiu.edu

For additional information and application materials contact the Financial Aid Office at:
University Park, PC 125, Miami, FL 33199
Student Fees and Student Accounts

Fees
Registration and tuition fees are established by the Board of Regents as required by the Florida Legislature. These fees are subject to change without notice. The currently authorized fees for academic year 2002-2003 are:

<table>
<thead>
<tr>
<th>Per Credit Hour Fees</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$79.80</td>
<td>$342.72</td>
</tr>
<tr>
<td>Graduate, Thesis or Dissertation</td>
<td>$161.98</td>
<td>$569.14</td>
</tr>
</tbody>
</table>

Student Fees
- Athletic: $10.00
- Health: $44.00

Registration fees for course audits are the same as the above fees, except that no assessment will be made for the out-of-state portion.

A schedule of registration and tuition fees for all programs is published prior to each semester and can be obtained at the Office of the Registrar. Since fees often change in the fall semester the above fees should be used for information purposes only. The schedule of classes will contain the most accurate fee information.

Fee Waivers
Students using a fee waiver for part of the fee payment must pay their portion on or before the last day to pay fees. Students who are responsible for a portion of their fees in addition to the fee waiver will be required to pay their portion before the fee waiver is applied.

University and State employees using the State employee fee waiver to pay their fees must register on or after the day established in the official University calendar for State employee registration. The State Employee Fee Waiver pays up to six hours of tuition and fees per term. Summer sessions A, B, and C are considered one term. If the employee registers for more than six hours, they will be required to pay for the additional credit hours plus all per student related fees. A properly completed and approved waiver form must be presented at the Cashier's Office by the date published for the last day to pay fees. Fee Waivers will be processed only for those courses shown on the approved fee waiver request form presented at the time of registration. A course over-ride card will not be accepted with the tuition waiver program. Only one fee waiver form per employee will be accepted each semester. The State employee fee waiver will not be accepted as payment for course registrations prior to the announced date for state employee registration. State Employee Fee Waivers do not cover Thesis, Dissertation, Internships, Directed Individual Study, Non Credit Courses, Sponsored Credit Programs, Certificate Programs, Field Experience, Practicum, closed courses, or courses taken for audit grades.

Senior citizens fee waivers are available to persons 60 years of age or older who meet the requirements of Florida residency as defined in this catalog. The fee waiver allows qualified individuals to attend credit classes on an audit basis. Senior citizens using the fee waiver must register during the first week of classes. Senior citizens using the fee waiver must pay the photo id fee during their first term in attendance. Florida law requires that State employee fee waivers and senior citizen fee waivers be granted on a space available basis only; therefore, individuals using these waivers must comply with the procedures outlined in the schedule of classes for each semester.

Refunds will not be processed for employees who have registered and paid prior to the state employee registration day and wish to use the fee waiver.

Fee Payment
Fees may be paid at the Cashier's Office at University Park, PC 120, or at Biscayne Bay Campus ACI 140. Broward students may pay by mail or at the Cashier's Office at University Park or Biscayne Bay Campus. Night drop boxes outside the Cashier's Offices are available 24 hours a day for fee payments by check or money order through the last day to pay fees. Payment is also accepted by mail. The University is not responsible for cash left in the night drop or sent through the mail. Failure to pay fees by the established deadlines will cause all courses to be canceled. See Fee Liability below.

Fees may also be paid by credit card through the telephone or the web through Phone Charge Inc. Simply call 1-877-348-7297 or go to the web at www.paybyinternet.com. Please note that a service fee will be attached to your credit card by Phone Charge.

Late Registration Fee
Students who register after the established deadline for registration will be subject to $100 late registration fee.

Late Payment Fee
Students who pay fees after the established deadline for payments will be subject to a $100 late payment fee. If applicable, this fee may be assessed in addition to the late registration fee described in the preceding section.

Florida Prepaid Tuition Plan Students
All students planning to register under the Florida Prepaid Tuition Plan must present their FPTP identification card to the Bursar's Office, PC 115 on the University Park Campus or at the Cashier's Office ACI 140, on the Biscayne Bay Campus before the published last day to pay fees. The portion of the student fees not covered by the plan must be paid by the student prior to the published last day to pay fees to avoid cancellation of classes.

Financial Aid Students
All financial aid recipients must come to the Cashier's Office and pay the difference between their financial aid or scholarship awards less Federal Work Study and their final fee assessment. The student's schedule will then be automatically validated. Acceptance of a financial aid package constitutes acceptance of the above validation process.

Fee Liability
Students are liable for all fees associated with all courses in which they are registered at the end of the drop/add period. The fee payment deadline is published in the official University calendar. If fees are not paid in full by the published dates, all courses will be canceled and any money paid will be lost. Registration is not complete until all fees are paid in full.
### Repeat Course Tuition Surchage

Repealed Attempts of Courses

The 1997 Legislature passed House Bill 1545 mandates that undergraduate students pay additional charges for the third time a student either takes or attempts a college credit course. Any undergraduate course taken, beginning Fall 1997, and all courses taken after this date will be subject to the repeat surcharge. Attempted hours mean those hours dropped/withdrawn after the drop/add period or failed. Withdrawals, incompletes and dropped courses will be subject to the tuition surcharge, if they are fee liable. All students are included regardless of type of residency. Undergraduate courses are 1000 to 4000 level courses.

**Exceptions:**
- Any course work taken prior to Fall 1997
- Credits earned through: cooperative education, military, waivers, audits, individualized study, courses that are repeated as a requirement of a major (except courses repeated more than 2 times to increase GPA or meet minimum course grade requirements), courses intended to continue over multiple semesters
- Attempts taken at previous institutions prior to enrolling at FIU
- Any non-fee liable withdrawal or dropped course
- Graduate level courses (courses at 5000 level or above)
- Effective Summer 2000 Registration, Universities may make exceptions based on extenuating circumstances and financial hardships. Students wishing to appeal the repeat surcharge may complete an "Appeal of Repeat Course Surchage" form, which may be obtained in the Registrar's Office, PC 130.

### Reinstatement of Classes

Appeals for reinstatement of registration for classes canceled for fiscal reasons must be filed in writing on the prescribed form with the Cashier's Office by the time specified on the cancellation notice. Reinstatement will be considered for all classes on the class schedule at the end of the drop/add period. Reinstatement cannot be requested selectively for certain classes. All reinstatement activity, including fee payment, must be completed by the date on the cancellation notice. All students whose registrations have been reinstated will be assessed a late payment fee. If the late registration fee is applicable it will also be assessed.

#### Application Fee

A non-refundable fee of $20 shall accompany each application for admission to the University.

#### Parking Rules and Regulations

All persons who park vehicles on the university's campuses shall register their vehicle(s) with the department of Parking and Traffic, obtain a decal or permit, and display the decal or permit, as prescribed by the Parking Rules and Regulations. The University assumes no liability for vehicles parked or operated on University property. The issuance of a decal or permit does not guarantee a place to park.

#### Parking and Traffic Access Fee

All currently enrolled students will pay a Parking and Traffic Access Fee each semester. The fee will appear on the Student Fee Schedule. This fee will be assessed as follows:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>$30.60 + tax</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>$30.60 + tax</td>
</tr>
<tr>
<td>Summer A, B, or C</td>
<td>$27.80 + tax</td>
</tr>
</tbody>
</table>

Students must provide the following information to the Department of Parking and Traffic to obtain a parking decal: social security number, proof of current class registration, and current vehicle registration. All decals must be permanently affixed to the outside of the vehicle, either on the left side of the rear bumper or lower left corner, on the outside of the rear window. All decals are valid until the expiration date indicated on the decal or permit. A duplicate hang tag will be issued upon request for an additional charge of $10.00 + tax. This hang tag is valid only for the vehicle under which it is registered. Hang tags are available to persons who have purchased an original decal for the current semester or year. The hang tags are for additionally owned vehicles and for situations where the original decal must be replaced due to an accident, paint job, etc.

#### Housing

All students in university housing complexes need to obtain a current semester housing sticker from the Department of Parking and Traffic. This sticker allows the vehicle to be parked legally in student housing areas. This sticker is valid for the current semester only. This housing sticker should be affixed to the left or right side of their current student decal.

#### Decal Classifications

- Faculty/Staff Decals
- Student Decals
- Housing Sticker
- Alumni Decal
- Duplicate Decals
- Duplicate student hang tag

#### Disabled

Any person who has been certified in accordance with Sections 320.084, 320.0848, or 320.0842, Florida Statutes, and has been issued a Disabled placard by the Department of Motor Vehicle Bureau shall obtain and display a university parking decal in the classification which would otherwise be appropriate.

#### Permits

1. The department of Parking and Traffic issues temporary permits to persons who require temporary parking authorization and who otherwise are required by these rules to obtain a decal. Permits must be applied for and are issued for a duration commensurate with its purposes. Permits may or may not include the payment of parking fees.

2. The circumstances under which a permit, rather than a decal shall be issued, include but are not limited to: the use of a temporary vehicle such as a rental car; parking on the university's campuses for attendance at conferences and meetings; and for visitors who are otherwise not required to obtain a decal.

3. Thirty (30), 60 and 90 day permits are available to persons otherwise required by these rules and regulations to obtain a decal.

#### Towing and Impoundment

The university may tow and impound any vehicle, which is found to be parked illegally or in violation of these rules.

#### Rules and Regulations Pamphlets

A copy of the University Parking Rules and Regulations is available at the department of Parking and Traffic located at University Park, Parking Garage One or Biscayne Bay Campus, Wolfe University Center, Room 131.
is the responsibility of each student to become familiar and comply with the University's parking and traffic rules and regulations.

**Other Fees**

**Library Fines**
Per book per library hour: $0.25
Maximum fine per book: $5.00
Lost book fine: $51.15

*Note:* These fees are subject to change as permitted by law. Additional fees may be added and special purpose fees may be assessed in some instances.

**Checks**
The University will accept personal checks for amounts due to the University. These checks must be in the exact amount due only. The Cashier's Office will not accept checks above the amount due, third party checks or checks for cash. State law requires that a service fee be assessed on a check returned unpaid by the bank for any reason. Service fees are based on the amount of the unpaid check. Checks for $0.01 - $50.00 are charged a $25.00 fee; $50.01 - $300.00, a $30.00 fee; $300.01 - $800.00, a $40.00 fee; and a fee of 5% of the amount of the check for all checks greater than $800.00.

Checks returned by the bank can be redeemed only by cash, cashier’s checks, or money orders. A personal check will not be accepted to replace a dishonored check.

Returned checks will be assigned to an agency for collection if not promptly paid. When an account has been assigned, the collection agency fee will be added to the University charges for collection at the current contract rate. Returned checks on student accounts will result in cancellation of classes and will require petition for reinstatement. See reinstatement of classes above.

The Cashier's Office will not accept a check on any student's account which has had two previous dishonored checks.

**Refunds**
Refunds will be processed and mailed to the address shown on the Registrar's files to all students whose fee accounts show an overpayment after the last day to pay fees. Students due a refund will not be required to submit a refund application to receive their refund; it will automatically be calculated. If there is an amount due to the university in the accounts receivable system, that amount will be deducted from any refund due.

Students who have completed registration and have paid all fees due and have completely withdrawn from the University prior to the end of the fourth week of classes are eligible for a refund of 25% of total fees paid.

In the following exceptional circumstances, a full refund of total fees paid will be made upon presentation of the proper documentation:

- Death of a student or immediate family member (parent, spouse, child or sibling). Death certificate required.
- Involuntary call to military service. Copy of orders required.
- Illness of student of such severity or duration to preclude completion of courses. Confirmation by a physician required.

Processing of refunds will begin after the end of the last day to pay fees.

Appeals for tuition refunds must be submitted in writing to the Office of the Registrar within one year after the end of the term for which the refund is requested. There are no exceptions to this policy.

**Past Due Accounts**
Delinquent accounts are sufficient cause to prohibit registration, graduation, release of transcripts, or release of diplomas.

The University is not able to grant credit or time payments for any fees. Financial aid is available to those qualifying through the Financial Aid Office. A limited number of short term loans are available to full time enrolled students who may experience problems in meeting fee payment due dates.

The University reserves the right to assign any past due account to an agency for collection. When an account has been assigned, the collection agency fee will be added to the University charges for collection at the current contract rate.

**Deadlines**
Students are reminded that deadlines are strictly enforced. The University is not able to grant credit or to extend the fee payment period beyond the time set in its official calendar. The University does not have the authority to waive late fees unless it has been determined that the University is primarily responsible for the delinquency or that extraordinary circumstances warrant such waiver. The University has no authority to extend deadlines for individual students beyond those set by the official calendar.
Academic Affairs

The College provides an important foundation for students who want to get the most out of their undergraduate years. Transition into higher education is made easier by the student's immediate association with a small group of students and teachers with similar capabilities and aspirations. The undergraduate experience is significantly enhanced by the broad liberal arts focus of the curriculum and the opportunity to work closely with experienced faculty from the first day on campus; and the opportunities for graduate and professional study or employment are greatly expanded because of the range of activities and experiences made available to students in the College. The Honors College at FIU offers the very best in undergraduate education.

Undergraduate Studies
Rosa L. Jones, Vice President,
Academic Affairs and
Undergraduate Studies
Yvonne Bacarisse, Associate Dean
Glenda Belote, Associate Dean
William Beesting, Assistant Dean

Undergraduate Studies provides a range of academic support services and program activities which are designed to foster students' successful progress from admission to graduation. These programs include the Academic Advising Center, offering advising for freshman, undecided majors, students changing majors, non-degree seeking students, and monitoring of Core curriculum and General Education requirements; the Athletic Academic Center, which provides a range of academic support services for student athletes; the University Learning Center and the Testing Center, providing CLAST advising and academic preparation, state and national test administration, and assistance in improving general academic skills; the Invitational Scholars Awards Program which provides scholarships and academic support; the Academy for the Art of Teaching which provides teaching and learning support for faculty and Teaching assistants; and ROTC. For more information contact University Park, (305) 348-2099 or Biscayne Bay Campus, (305) 919-5754.

University Technology Services (UTS)
All computing, telecommunications, library, and instructional media services on all Florida International University campuses are under the direction of the Vice President, Information Technology and Chief Information Officer. The four major units of University Technology Services are: Media and Technology Services, the Southeast Regional Data Center (SERDAC), Network, Engineering and Telecommunications (NET), and Operations and Enterprise Systems (OES).

Media and Technology Services (MTS)
Media and Technology Services (MTS) provides instructional and research computing support to the faculty and students from all FIU academic departments on all campuses. Services of interest to students include: introductory seminars and workshops on the most widely used equipment and software; use of e-mail, Internet and the Web; comprehensive documentation libraries, open popular application software packages, dial-up and open PC labs; assistance with remote access to University servers; and peer/professional consultation on various computer-related problems within limits defined by academic departments.

In addition to instructional computing support, the computer support team provides installation, deployment, and upgrade of all desktop applications.

Media Equipment and Engineering
The Media Equipment and Engineering group is responsible for maintaining electronic classrooms, providing engineering services for distant learning, distributing equipment and planning/designing audiovisual services. The audiovisual group provides faculty and students with the ability to use computer access to enhance the teaching/learning experience.

Lab Use: Students are required to have a valid FIU picture ID card to use UTS labs. During the peak periods before midterm and final exams lab hours are extended to meet increased demand; nevertheless, users are advised to complete assignments early. Time

Honors College
Ivelaw L. Griffith, Dean
Stephen M. Fjellman, Associate Dean
Caryl Myers Grof, Assistant Dean
Sharon Placide, Coordinator of Student Services

Talented students often are forced to choose between the exciting opportunities and challenges offered by large, research-oriented universities and the close, personal environment offered by small liberal arts colleges. FIU offers the best of both worlds. The Honors College is a small community of dedicated scholars—outstanding students and committed teachers—who work together in an atmosphere usually associated with small private colleges, but they do so with all of the resources of a major state university readily at hand.
limits may be imposed during periods of high demand. Ethical computing practices are enforced. For a recorded message with lab locations and current student lab hours, call (305) 348-2174 for University Park and (305) 919-5600 for Biscayne Bay Campus. Please direct other University Park inquiries to (305) 348-2568. For more detailed information, see our home page at: www.fiu.edu/~utalabs

Part-time Student Employment:
Each semester, University Computer Services employs over 60 part-time student consultants. Although primarily responsible for maintaining a good working environment and flow of users through lab facilities, some consultants work in ARC User Services where they assist in desktop network integration and microcomputer support. They diagnose and resolve system and equipment malfunctions in departments all across the University. Other students teach faculty, staff and peers to use software applications and computer resources. Exposure to a variety of hardware and software and direct training by ARC professional staff, provides excellent job experience. Students with better than average interpersonal and computer skills are invited to apply for employment at FIU.

Southeast Regional Data Center (SERDAC)
The State University System’s Southeast Regional Data Center provides primary academic computing services to Florida International University via an Ethernet network which connects student and faculty workstations to the Data Center’s Unix and the RS 6000 complex cluster services.

SERDAC’s computers allow convenient access to the Internet and currently provides Internet 2 access. Information on these services may be obtained by calling (305) 348-2284.

Primary operations and dispatch services for faculty, student, and administrative printout are located in University Park, PC 504. Please call (305) 348-2284 for information concerning this facility.

SERDAC offers personal computer/workstation maintenance to the University community. Currently, the SERDAC Maintenance Facility has been designated as a factory-authorized center for IBM, Dell, and Apple personal computers. Please call (305) 348-2284 for information.

Telecommunications
The Network, Engineering, and Telecommunications (NET) is responsible for administering, planning, designing, operating, installing and maintaining of voice, video and data communications systems, equipment and networks that serve the University community. In addition, NET plays an integral part in the design and completion phases of the University’s major construction projects and renovations.

NET responsibility for voice communication systems includes planning, managing and developing the University’s telephone systems, including 24-hour Operator service, voice mail, feature customization, move/add/change orders and toll charge accounting. Through the data communications and network management services, NET maintains several intercampus data communications networks and operates the University’s modem pool for access to FIUnet and the Internet. These services provide users access to all networked University computing resources and gateways to statewide, national and international telecommunications networks. In addition to providing day-to-day repair and installation of data communications equipment and cabling, the Department supervises the design of communication systems for new construction and renovations at the University.

Instructional Photography
Instructional Photography supports faculty by creating both film-based and digitized images which are used in web courses and the digital library. (GL 180 at University Park (305) 348-3158).

Video Broadcast/Production
Video Broadcast/Production provides facilities and personnel to support faculty in the broadcast and production of video. Broadcast services include live interactive classes across three campuses and special educational events to/from worldwide locations via satellite. Video services include design, edit, and production of video for instructional purposes, either in the studio or at remote locations. (GL 141 at University Park (305) 348-2830).

International Studies
A. Douglas Kincaid, Vice Provost for International Studies

International Studies encompasses the units that have primary responsibility for promoting FIU’s international mission through teaching, research, and public education. These units include the Latin American and Caribbean Center (LACC), the Center for Transnational and Comparative Studies (TCS), and the Office of International Studies. For more information about LACC and TCS, see the respective entries under Centers and Institutes.

The Office of International Studies (OIS) seeks to develop international education programs and activities at the University. OIS staff members work with students and faculty who are interested in participating in international exchange, study abroad programs, and other international academic opportunities. OIS assists with the development of agreements with foreign universities to extend the range of opportunities for students and faculty. In addition, the office advises students and faculty on the availability of Fulbright Grants, and other international scholarship opportunities.

OIS facilitates the University’s interaction with local and international interest groups, serves as a liaison with universities and visitors from abroad, and promotes the international mission of the university. For more information on the services offered by OIS located in DM 300B, call (305) 348-1913, email: intered@fiu.edu or http://intered.fiu.edu.

International Student Exchange Program
The International Student Exchange (ISE) Program provides students with the opportunity to study abroad (during one or two semesters) at one of the various universities that have an agreement with Florida International University. Full credit is given for work satisfactorily completed during the exchange program - as long as it has been pre-approved by an advisor. Grades are not transferred. ISE offers the opportunity to live abroad, explore other languages and cultures, and become acquainted with new friends from all over the world. Students will be required to pay their normal::FIU tuition, insurance, housing, and travel arrangements.

In order to participate in ISE, a student must be enrolled at FIU and have a 3.0 cumulative GPA. For further information, contact the Office of International Studies, University Park.
Study Abroad Programs
During the Summer semester FIU offers a number of Study Abroad Programs in coordination with different academic units, the Office of International Studies, and University Outreach. These programs are under the direction of FIU faculty members who accompany the students abroad. Students receive credit for these programs. Each year FIU offers different opportunities and a variety of countries. Programs locations include: Brazil, China, Spain, England, Ireland, Czech Republic, Germany, Italy, Japan, and others. The Honors College also offers programs in Italy and Spain. For more information contact the Office of International Studies at (305) 348-1913, email intered@fiu.edu or http://intered.fiu.edu.

Planning and Institutional Effectiveness
Daniel Coleman, Vice Provost and Director
David Hall, Assistant Director
Marta Perez, Assistant Director
The Office of Planning and Institutional Effectiveness coordinates and supports institutional planning, continuous quality improvement, institutional effectiveness and program review as well as supporting the institutional research functions of the University. The specific objectives are to: monitor the development of data systems for decision-making purposes; coordinate institutional reporting and dissemination of official institutional data of all requests from various federal, state and private agencies; participate in the development of institutional long range planning; participate in the development of institutional enrollment plans; transform institutional data to relevant information, serve as a catalyst for institutional self-analysis and improvement; identify potential problems and recommend alternative solutions; coordinate the development and implementation of continuous quality improvement; build a campus climate and capacity to utilize the shared authoritative data source in decision-making processes, internal and external reporting requirements; provide leadership to identify institutional opportunities to leverage change that will enhance the competitive advantage of the enterprise in the market place; provide a training program for members of the administrative units to enhance the access, value, and usefulness of the institutional authoritative data resource; and serve as an institutional resource and provide expert advice in meeting the institutional effectiveness needs of the accrediting organizations and the performance measures as defined by the various governing bodies.

Sponsored Research and Training
Thomas A. Breslin, Vice President
Catherine F. Thurman, Director
The Division of Sponsored Research and Training serves the research and training needs of faculty by providing timely information on the availability of local, state, and federal program support. Attracting these funds to FIU provides an opportunity to better serve the needs of the people of Florida through services not regularly funded by the Legislature.

Among the major goals of the Division of Sponsored Research and Training are the following: to help stimulate faculty and staff interest in research and training projects; to assist the faculty and staff in obtaining funds for research and training projects; and to provide technical assistance to faculty and staff who manage contract and grant programs for the University. For more information, contact (305) 348-2494. The web page address is: www.dart.fiu.edu.

The Art Museum
Dahlia Morgan, Director
The Art Museum at Florida International University has served the South Florida community for over 20 years presenting exhibition and art lectures of local, national and international importance. Exhibitions include student shows, self-curated exhibitions from both the University’s collections and from institutions and organizations outside the University, and national traveling shows. The Art Museum is accredited by the American Association of Museums and as an affiliate of the Smithsonian Institution. It has also been recognized for its excellence by the grants it has received, most recently the National Endowment for the Arts; The Institute for Museum and Library Services; The Florida Humanities Council; Miami-Dade County Cultural Affairs Council; Florida Department of State, Division of Cultural Affairs. The Art Museum is designated as a major culture institution by the State of Florida.

The Art Museum serves Miami’s multi-cultural community year round, free of charge. The Museum is home to Coral Gables’ Metropolitan Museum and Art Center Collection, The Cintas Foundation of Contemporary Hispanic Art, a permanent collection of works by North and South American and Florida artists, and the site of the Martin Z. Margulies Sculpture Park. One of the world’s most important international outdoor sculpture collections includes works by Calder, De Kooning, Ricky, Nevelson, Serra, and other well-known artists.

The Art Museum provides a unique experience to a very broad audience including children, students, teachers, senior citizens, minorities and the disabled. Besides serving two campuses and two centers, its programs extend to surrounding counties outside of Dade including Broward, Palm Beach and Monroe Counties.

The Art Museum, which occupies a 5,000 square foot area on the University Park campus, opened with an internationally acclaimed exhibition, Contemporary Latin American Drawings, in April, 1977. Since then, many important exhibitions have been presented, including: Alberto Giacometti, Draftsmen and Sculptor; Mira, Mira, Mira: Los Cubanos de Miami; Adolph Gottlieb: Paintings and Works on Paper; Marcel Duchamp; Louise Bourgeois; The Phillips Collection in the Making: 1920 - 1930; Imagenes Liricas: New Spanish Visions; CUBA-USA: The First Generation; Jose Bedia; Agustin Fernandez: A Retrospective; Miro/Noguchi; and most recently, Modernism and Abstraction: Treasures from the Smithsonian American Art Museum. The annual American Art Today series has featured contemporary artists exploring traditional themes including Still Life, The Figure in the Landscape, The Portrait, Narrative Painting, The City Surface Tension, Clothing as Metaphor Images from Abroad and the Garden, and Fantasies and Curiosities.

The Art Museum has continued to enhance its exhibitions with the Critics’ Lecture Series, which has
The Wolfsonian-FIU

Cathy Leff, Director

Located in the heart of Miami Beach’s Art Deco District, The Wolfsonian—Florida International University is a museum and research center that serves local, national, and international audiences by promoting the examination, understanding, and appreciation of the ways that design has served as a reflection of societal values and as an active force in the shaping of human experience. The Wolfsonian is accredited by the American Association of Museums. Through thought-provoking exhibitions, publications, research, academic, and public programs, The Wolfsonian-FIU focuses on the meaning of objects and the effect that the Industrial Revolution had on the creation of the modern world. The Wolfsonian became part of FIU in July 1991. Its founder, Mitchell Wolfson Jr., donated to FIU his extraordinary collection of the period 1885-1945.

The Wolfsonian holds more than 70,000 objects predominantly from North America and Europe, providing rich evidence of the cultural, political, and technological changes that swept the world in the century preceding the end of World War II. The collection features furniture, decorative arts, industrial design, paintings, sculpture, architectural models, works on paper, rare books, and ephemera. Notable among these are Depression-era prints and mural studies by WPA artists, items from the British Arts and Crafts movement and the German Werkstätten and Werkbund, and artifacts of political propaganda.

Permanent, temporary, and traveling shows address broad themes of the nineteenth and twentieth centuries, such as nationalism, political persuasion, industrialization, architecture and urbanism, consumerism and advertising, transportation, and world’s fairs. Although drawing primarily on its own holdings, The Wolfsonian also features exhibitions and objects on loan from other collections.

Days, evenings, and weekends, The Wolfsonian offers a range of lectures, films, symposia, tours, and workshops geared to visitors of all ages. It has paired with Miami-Dade County public schools to develop activities and interpretive materials for students and teachers in the arts and social sciences. To inquire about an exhibition (present, past, upcoming), program, or the general calendar, or to learn more about the collection and how it can be used for research, please visit www.wolfsonian.org or call (305) 331-1001.

The Wolfsonian publishes catalogues to document its exhibitions and collection. It also produces the award-winning Journal of Decorative and Propaganda Arts, a scholarly annual dedicated to exploring the role of art and design in the modern world.

Free admission to exhibitions is provided to all Florida state university faculty, students, and staff with valid ID. In addition, The Wolfsonian is open free to the general public on Thursday evenings from 6:00 pm–9:00 pm. Most educational programs are free to the FIU community; however, occasional fees apply.

Libraries

The University Libraries are housed in the Green Library (GL) at University Park, and in the Library building (LIB) on the Biscayne Bay Campus.

The total library collection comprises more than 1,150,000 volumes, in addition to substantial holdings of federal, state, local, and international documents; maps; microforms; music scores; newspapers; institutional archives; and curriculum materials. The Library subscribes to more than 8,650 scholarly journals and other serials. The number of resources available electronically via the World Wide Web continues to increase.

A computerized catalog of library holdings provides a listing of materials in both FIU Libraries, other libraries in the State University System, and throughout the world. The bulk of the collection is housed in open stacks.

Classification of library resources is according to the Library of Congress system, except for some of the documents and special collections (e.g., U.S., Florida, and U.N. documents, archives, etc.) which are arranged by their own classification systems and have separate public catalogs.

The libraries are open when classes are in session and during vacation periods. For exact library hours, please call (305) 348-2479, consult the posted schedules or LUIS—the library’s online catalog—or the library home page at www.fiu.edu/~library. Staff members are always available at the Public Service desks to assist students and faculty in their use of the library.
The Division of Business & Finance comprises the offices of Administrative Services, Business Services, Parking and Traffic, Budget Planning, Controller’s, Environmental Health and Safety, Equal Opportunity Programs, Facilities Management, Human Resources, Business and Finance Biscayne Bay Campus, Public Safety and Purchasing.

Auxiliary Services

Auxiliary Services supervises the bookstore and food services operations on both University Park and the Biscayne Bay Campus, which includes the Cafeteria, Gracie’s Grill and all vending operations.

Auxiliary Services also oversees the operations of Duplicating Services, which includes a Print Shop, Convenience Copiers and a Total Copy Reproduction Center. The unit offices are housed in Duplicating Services, DC 100 at University Park 348-2331 and AC1 148 on the Biscayne Bay Campus 919-5660.

Controller’s Office

This area is primarily responsible for maintaining accounting records, controlling budgets, coordinating financial activities and reporting on financial data. Typical functions of the Controller’s Office are the payment of invoices to vendors, collection of fees and other revenues, contract and grant accounting, payroll, disbursement and collection of student loans and the reconciliation of accounting ledgers.

The Controller’s Office is a service oriented unit assisting the University community in most aspects of financial operations. Questions concerning the use of State funds, internal control procedures or methods to pay a vendor or employee are normally addressed to this unit. Guidance is provided to travelers pertaining to the State requirements for the reimbursement of traveling expenses. Assistance is provided to employees in the interpretation of accounting ledgers and fiscal reports.

The following sections operate within the Controller’s Office: General Accounting, Accounts Payable, Travel, Construction and Property Accounting, Contracts and Grants, Disbursement, Student Loan and Accounts Receiv-

Business and Finance

able, Payroll, and the Cashier’s Office at all campuses.

Environmental Health and Safety

The Department of Environmental Health & Safety & Risk Management Services provides the leadership and direction necessary to assure identification, implementation and effective administration of programs designed to promote hazard recognition, avoidance, reporting and control, as well as compliance with various federal, state and local safety regulations.

In addition to programs necessary for regulatory compliance, the department takes a proactive approach on many issues. Among the programs and activities managed by the department are: investigation and initial processing of liability claims against the University; review of risk management concerns related to special events planned by student organizations and University employees and presentations to student groups; indoor air quality investigations; and management of the Dive Safety Office. The DSO monitors and supports scientific diving.

The primary component of the department’s mission is service. This mission is accomplished by working in close coordination and cooperation with other departments and the University community in general. At University Park, the department is located at CSC 2, 348-2621/2622. Services are provided at the Biscayne Bay Campus from the Facilities Operations complex, S01 115, 919-5225.

Equal Opportunity Programs

This office provides leadership and direction in the administration of the University’s equalization programs for women and minorities in several ways. It prepares the University’s annual Affirmative Action Plan and the State Equity Accountability Plan, assists University units in implementing and monitoring affirmative action procedures; provides oversight to the University Diversity Program; provides a channel for employee and student grievances regarding discrimination, or issues indicating a need for additional affirmative actions; administers implementation of the Policy to Prohibit Sexual Harassment; coordinates University compliance with the Americans with Disabilities Act and with Title IX of the Education Amendments of 1972, and promotes effective relationships between the University and community organizations. Equal Opportunity Programs also administers the State University System’s scholarship programs funded for the purpose of increasing minority enrollment. In addition, the Office maintains a liaison relationship with State and Federal agencies dealing with EEO and affirmative action. The Office is located at University Park, PC 511, (305) 348-2785.

Americans with Disabilities Act (ADA)

The Director for Equal Opportunity Programs is the University’s ADA Coordinator, and has responsibility for ensuring access to employment, academic and public programs for persons with disabilities. The Office administers a central budget used to fund the costs of reasonable accommodations for University employees and applicants for employment. The office also works closely with the Office of Disability Services for Students in the provision of auxiliary aids and services to ensure access to academic programs, and with all University offices in the provision of access to University public events.

HIV/AIDS Policy

Students and employees of the University who may become infected with the HIV/AIDS virus will not be excluded from enrollment or employment or restricted in their access to University services or facilities, unless individual medically-based judgments establish that exclusion or restriction is necessary to the welfare of the individual or to other members of the University community. The University has established an HIV/AIDS Committee which includes representatives from major University divisions and other staff as appropriate. The Committee, which meets regularly, is responsible for monitoring developments with regard to HIV/AIDS, acting upon and administering the University’s Policy
Facilities Management

Facilities Management provides professional support to planning, designing, construction, maintenance, and operations of facilities on all campuses, to accommodate all aspects of the University mission as defined in the Campus Master Plan. This department is separated into three major areas of supervision which are Facilities Development, Facilities Operations and Utilities Support Services.

Facilities Development is responsible for all design and construction projects. These activities include building programs, design coordination, construction administration and occupancy coordination.

Facilities Operations is responsible for the operations and logistics of physical resources including building and grounds maintenance, custodial, landscaping, roads and parking lots.

For routine and emergency maintenance services, please contact the Customer Service Center at 348-4600 at University Park and 919-5700 at Biscayne Bay Campus.

Utilities Support Services oversees the University's utility systems including air conditioning, water, sewage, electrical power and solid waste management. In addition, Utilities Support Services works together with Environmental Health & Safety to assure that all toxic (biological or chemical) wastes are disposed of properly.

Public Safety

Public Safety is a full service law enforcement organization dedicated to ensuring an environment conducive to living and learning in a University community. The department's members include Law Enforcement Officers who are fully certified and sworn, and have full police authority to enforce state, local and University regulations.

Purchasing Services

Purchasing Services is organized to support students, the instructional and research efforts of the faculty, staff, and all University departments. Purchasing involves the acquisition of equipment, furnishings, supplies, construction services, preventive maintenance services, contractual services, and lease of space for the University.

Purchasing Services is responsible for a number of functions in addition to the primary function of centralized university purchasing. These other functions include Central Stores, Central Receiving, Property Control, Surplus Property and Campus Mail.

The office is located at University Park, CSC 410 and can be reached at 348-2161.

University Budget and Planning

University Budget and Planning is responsible for the development of all operating budgets in all budget entities, including capital programs, legislative budget requests, operating budget requests and internal operating budget plan. The annual operating budget for the University is published by the office and the charts and graphs are reproduced on the website maintained by the office. A major responsibility includes the monitoring of budgets throughout the year to ensure that budgets by category are not exceeded. The office works closely with and monitors the auxiliary enterprises of the University to ensure compliance with policies and that a strategic direction is followed. The office also has responsibility for University planning, including long range planning. Planning involves working closely with the Executive Council, which is the long range (strategic) planning body for the University, in terms of the long range vision and goals of the University, both in relation to the operating (budget) and facilities (PECO) needs. The office is located in PC 522 and can be reached at 348-2104.
Biscayne Bay Campus

The Biscayne Bay Campus of Florida International University is located on 200 acres on the waterfront of Biscayne Bay and has an enrollment in excess of 8000 students. Students at Biscayne Bay Campus may complete Core Curriculum requirements for any university degree program and may become students in the Honors College. The campus is headquarters for academic programs in Hospitality Management, Journalism and Mass Communication, and Nursing and offers selected degree programs in Arts and Sciences, Business Administration, Education, and Health and Urban Affairs (for specific degree programs please refer to relevant pages in this catalog).

The Biscayne Bay Campus is also the hub of the University’s Continuing Education and outreach efforts. It serves as host to the Institute For Life Long Learning, the HRS-Children and Families Professional Development Centre, the Institute of Government, the Institute for Public Opinion Research, Center on Aging, and the Roz and Cal Kovens Conference Center. The Kovens Conference Center is a high-tech, state-of-the-art conference facility located on the waterfront of Biscayne Bay. The center provisions include distinct meeting rooms, seminar rooms, ballrooms with a bay view, and computer labs. All of which are equipped with the latest in teleconferencing, web-casting, Internet-multi-casting, videoconferencing, and large-scale multi-media presentation capabilities.

Students attending the Biscayne Bay Campus will find eight state-of-the-art computer labs available to them located throughout the campus complex each having full Internet access, and multi-media capability. Also, students will find that many of their courses will be taught in advanced multi-media capable classrooms as part of their learning process. The Biscayne Bay Campus Library occupies 57,000 square feet of space, and has a seating capacity of 600. It is a Federal and Florida State Government Document Depository. The Library has its own local area network for computing services and CD-ROM data base access, and also serves as the focus point for the FIU Libraries PantherNet, a prototype remote dial-in system that allows telephone access to CD-ROMs, electronic journals, electronic reserves, library publications and provides support for Distance Learning. The Library also houses several student computer facilities, and computer resource learning centers.

Apartment style residential housing on the Biscayne Bay Campus accommodates 276 students. Student life is enhanced through the provision of programs and services offered in the Wolfe University Center through Student Affairs, which is the focal point of social and cultural activity outside of the classroom. The Wolfe Center houses the cafeteria, bookstore, fitness center, computer lab, postal facility, duplicating center, automatic banking facilities, University Credit Union, meeting rooms and ballrooms, 300-seat auditorium and theater, Student Government Offices, Student Development Offices, Recreational Sports, Career Services, Disability Services, International Student Services, Minority Student Services, Orientation, Student Activities, Student Counseling, Victim Advocacy, Volunteer Action Center and the Women’s Center. The campus also provides a Student Health and Wellness Center adjacent to the Library.

Students may apply for admission and financial aid, register for courses, and obtain academic advising on the premises of the Biscayne Bay Campus.

The Campus is administered by the Office of the Vice Provost of Biscayne Bay Campus. This office is located on the Third Floor of the Library. Representatives from the Divisions of Academic Affairs, Business and Finance, Student Affairs, Human Resources, and University Relations are also located in these offices. Coordination with other university divisions and the University Park Campus are facilitated through Office of the Vice Provost and Academic Affairs on the Biscayne Bay Campus.
The Division of External Relations coordinates the University's marketing, public relations and communications activities. It includes the offices of Advertising and Brand Management, Communications, Community Relations, Interactive Design, Marketing Media Relations and Publications, which work together to execute FIU's major activities, both at the institutional and unit level, in these areas. Whether it is an individual product, such as a web page, brochure or a newsletter... or publicity and promotion for a program... or a special event - or all of these elements - the division procedures integrated plans and executes the steps needed to advance the University's marketing/public relations goals.

Advertising and Brand Management
Advertising and Brand Management directs and develops strategies to build, define and communicate the FIU brand. By advertising and marketing a consistent message, the University establishes its unique and exceptional features to its various targeted audiences.

Communications
Communications manages and develops the editorial content of a variety of print and electronic media produced by the University, including the FIU Magazine, FIU Newsletter, This Week@FIU and the upper levels of the University web site. These media inform key publics, including alumni, donors, public officials, students, faculty and staff. The office also provides other public relations and editorial services to the University.

Community Relations
Community Relations strengthens ties between FIU and the community by planning and coordinating major University events. The office also assists in hosting visiting dignitaries, helps other units implement events and oversees FIU's participation in community activities.

External Relations

Interactive Design
Interactive Design enhances the online and offline identity of FIU through the use of advanced computer graphics and electronic multimedia. The office, which designed and maintains the home page and upper levels of the FIU web site, creates web sites, flash animations, virtual reality tours, 3D graphics and other products using cutting-edge technologies.

Marketing
Marketing seeks sponsorships for and offers promotional and production assistance to a variety of FIU cultural organizations and events, including the South Beach Wine and Food Festival and the Miami Film Festival. This office also handles licensing contracts and assists the Department of Athletics and Recreation in building financial and fan support for Golden Panther football and other programs.

Media Relations
Media Relations works with local, national and international news media to promote FIU's image, academic programs, research activities, cultural initiatives and special events. The office provides media strategies for academic programs, special events and the University itself. The office is responsible for the news.fiu.edu web site and produces a weekly public affairs show, FIU In View, broadcast by WLRN-TV.

Publications
Publications produces effective and informative publications designed to advance the University's marketing initiatives. The office provides a variety of services including concept development, design, editorial and print production. The office produces University publications, advertisements and collateral for recruitment, fund raising and institutional advancement.
The Division of University Advancement coordinates the University's private fund-raising efforts. The offices of Development, Administration and Operations, and Alumni Relations and Annual Giving generate support for FIU from alumni and friends in South Florida and beyond.

Administration and Operations
Administration and Operations manages administrative functions of the division as well as activities fundamental to fund raising, including donor research, gift processing and acknowledgement, and campaign planning.

Alumni Relations and Annual Giving
Alumni Relations and Annual Giving offers a variety of programs and services to the University's nearly 100,000 graduates and serves as a liaison to the membership-based FIU Alumni Association, which it assists in producing several signature events throughout the year. The unit also conducts the University's annual giving fund-raising drive with the alumni body. The office welcomes all graduates and guests to FIU and encourages student involvement in its student chapter and at various events. Visit the office at PC 234 (University Park) or call 1-800-FIU-ALUM.

Development
The University's fund-raising arm solicits private gifts from a variety of sources, including individuals, corporations and private foundations. Development staff collaborate with University administrators and faculty as well as the Board of Trustees of the FIU Foundation and other volunteers on specific fund-raising efforts. In 2001, FIU completed its first major fund-raising effort, The Campaign for FIU. The $200 million drive made scholarships possible for needy students, eminent scholars chairs that help attract top research faculty, buildings such as the Herbert and Nicole Wertheim Performing Arts Center at University Park and the Southern Wine & Spirits Beverage Management Center on the Biscayne Bay Campus, and new programs in

University Advancement

units such as the Department of Religious Studies, the College of Business Administration, and numerous others.
The Division of Student Affairs seeks to educate a diverse body of students by supporting their personal and academic growth. We promote cross-cultural outreach and understanding, create an environment which fosters the development of the 'whole' student, promote cultural learning and pluralism, provide programs and services which enhance intellectual, social, cultural, physical, emotional, and spiritual development, support civic awareness and service learning, and prepare students to become contributing members of the community.

The following are Student Affairs departments and programs:

**Campus Life**

The Department of Campus Life provides learning communities that expose students to diversity of ideas and experiences and develop the following skills: leadership, communication, problem-solving, program planning, organization, implementation, evaluation, and most importantly, the opportunity to *Get Involved on Campus*. Campus Life activities are co-curricular and cover all aspects of the educational experiences and personal growth of students. Over 150 registered organizations exist to enrich campus life and contribute to the social, cultural, and academic growth of students. Activities such as multicultural theme weeks, dances, parties, movies, athletic events and pep rallies, community service, concerts, comedy shows, and the lecture series, are a few of the fun and educational programs offered through the department. Students may form additional organizations and clubs that promote the University's educational mission and the development of one's personal attributes.

The Department of Campus Life includes the Student Government Association, Student Organizations Council, Student Programming Council, Honors Council, Greek Organizations, Campus Ministry, and the Graduate Student Association.

Location: GC 340, University Park, (305) 348-2138; WUC 363, Biscayne Bay Campus, (305) 919-5804.

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**Children's Creative Learning Center**

The Children's Creative Learning Center at FIU is an Educational Research Center for Child Development. The Center is a department of the Division of Student Affairs.

The Center offers an educational preschool program to children between the ages of two years and six months (toilet trained) through five years. The program is designed to meet the needs of children Monday through Friday, from 7:45 a.m. to 6:00 p.m., with pick-up at 12:00 p.m., 12:30 p.m., or after 3:30 p.m.

Since the inception in 1975, this model program has become well known for providing appropriate hands on experiences for children of students, faculty, staff, alumni, and the neighboring community. Enrollment priority is given to children of students.

Children are viewed as individuals. Each child is encouraged to develop socially, emotionally, physically, cognitively, and intellectually at his/her own rate of growth. Working toward their maximum potential, the children are nurtured by being exposed to the many content areas the teachers offer such as: art, music, movement, science, cooking, dramatic play, and outdoor play. Language and literacy, pre-math, and developmental tasks along with hands on experiences of educational concepts to convey awareness of the world around us are included. A creative atmosphere exists where educational concepts are introduced as hands on experiences and through different areas around the classroom. Through these real life experiences, the children make sense of their world.

Parent involvement is a high priority at the Center. Parents are an integral part of the community by making a commitment to engage in meaningful experiences with their children. This enriches the children's experiences and supports family relationships. Parent workshops are offered as well as family gatherings.

Students that are eligible or recipients of a Pell Grant and can meet other criteria may receive a partial subsidy to cover their child's registration fee, supply fee, and tuition.

For more information or to receive a copy of the Center's brochure and request for admission, please call (305) 348-2143.

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**Greek Life**

Greek Organizations contribute to the University by promoting leadership, scholarship, service, social activities and brotherhood and sisterhood. An Interfraternity Council governs men's fraternities, a National Pan-Hellenic Council governs historically African-American fraternities and sororities, and the Panhellenic Council governs women's fraternities and sororities. The Order of Omega is the honorary leadership society of fraternities and sororities that promotes leadership and scholarship among Greeks. Formal recruitment periods are held each Fall semester. However, many fraternities and sororities have informal recruitment events year round.

Location: GC 340, University Park, (305) 348-1293 or (305) 348-2138, www.fiu.edu/~greeks.

**Student Government Association**

The Student Government Association is comprised of representatives from all Schools and Colleges who are elected by the student body. There is a Student Government Council at both the Biscayne Bay Campus and University Park. SGA is responsible for overseeing and appropriating the Activity and Service (A&S) fees paid by all students each semester. These fees fund many of the campus life events, student activities, and clubs and organizations. SGA also acts as the liaison between the students and administrative areas of the University, specifically speaking, and lobbying on behalf of students.

SGA members represent the student body on University-wide committees and task forces to ensure student representation at the administrative level. SGA meets regularly and students are highly encouraged to attend meetings and become involved in all aspects of Student Government.

Location: GC 311, University Park, (305) 348-2121; WUC 363, Biscayne Bay Campus, (305) 919-5680.

**Volunteer Action Center**

The Volunteer Action Center (VAC) is the central office for student volunteer
activities on campus. The center encourages students to realize their potential to impact their communities and effect social changes through the power of service learning, advocacy, and volunteerism. The VAC has two central focuses: first, it coordinates and directs service-learning activities, and second, it acts as a clearinghouse and resource center for volunteer opportunities and advocacy. Additionally, the VAC sponsors two student-run programs. Alternative Spring Break organizes and sends students to perform community service projects in different cities across the country during the University's Spring Break. The second program is Dance Marathon, an annual fundraiser where students raise money for the Children's Miracle Network. The VAC is committed to helping students turn their caring into daring, their ideas into action, and their time into change.

Location: GC 340, University Park, (305) 348-2149; Biscayne Bay Campus, WUC 257, (305) 919-5360, www.fiu.edu/~vac.

Campus Ministry

The Multifaith Campus Ministry serves student groups involved in a variety of activities. Professional representatives from various faiths are available for personal appointments. Individual denominations sponsor campus-wide programs including worship, study groups, social gatherings, and cultural events. Campus Ministry sponsors programs and activities which are non-denominational.

Location: GC 358, University Park, (305) 348-3902; WUC 265, Biscayne Bay Campus, (305) 919-5247.

Career Services

Career Services (CS) is a student's "Partner for Career Success." The Office assists registered students at all campus locations with career plans and employment needs across all academic disciplines and degree levels. CS's "high-tech/high-touch" philosophy offers 24-7 services plus individualized attention.

CS encourages students to partner with the office immediately after enrolling in classes—whether as a freshman, a transfer, or a graduate student. Services include:

- Career Development – Offers career interest tools, group sessions, and appointments for those desiring to identify their next educational/career path.
- Internships – Provides students with practical experience in their chosen major. Assignments include part-time as well as full-time work. Internships may provide a salary and academic credit with assignments possible at local, national or international levels.
- Employment upon graduation – Offers networking opportunities, career fairs (face-to-face and virtual), employer forums, on-campus recruiting (face-to-face and virtual), on-line job vacancies, and resume referrals.
- CS also provides specialized workshops for "soft skill" development (e.g., business etiquette dinners and dress for success seminars) and related sessions (e.g., behavioral interviewing, resume critiques, mock interviews, and development of scannable resumés). The office has videoconference meeting and interviewing capability. For more information, click on: http://www.fiu.edu/~career/

Locations: University Park, GC-230, (305) 348-2423; Biscayne Bay Campus, WUC-225, (305) 919-5770; Engineering, CEAS 2780, (305) 348-1281.

Disability Services for Students

Disability Services for Students provides information and assistance to students with disabilities who are in need of special accommodations. Individual services are available to students with visual, hearing, speech, physical, and learning disabilities. Services include counseling, classroom accommodations, assistive technology, note-takers, readers, ASL interpreters, adapted testing, priority registration, and referrals. Support and assistance in overcoming architectural, academic, attitudinal, and other barriers encountered are provided. Requests for services must be made prior to the beginning of each semester and current documentation of disability is required to receive services.

Location: GC 190, University Park, (305) 348-3552; WUC 139, Biscayne Bay Campus, (305) 919-5345. TTY 348-3490.

Health Care and Wellness

The Health Care and Wellness Center (HCWC) provides quality, cost-effective, confidential, and professional primary medical care for the prevention, diagnosis, and treatment of non-emergency illness and injury. The Center also promotes healthy lifestyle choices and provides health education to enable students to achieve their optimal wellness potential.

The following free services are offered at the Health Care Center: routine office visits with registered nurses and primary care nurse practitioners and physicians; health screening; family planning counseling; podiatry (at UP campus). The following services are offered at the Health Care Center for a nominal charge: Pap smears; laboratory tests (blood, urine, and cultures); EKGs; vision and hearing tests; physical examinations; HIV counseling and testing; respiratory therapy; immunizations; allergy injections; and certain over-the-counter and prescription medications. Students must present a valid FIU photo ID at the time of office visit. The Health Care Center is open Monday - Friday and appointments are strongly recommended. Payment is required at the time of service. The student health fee does not cover diagnostic and therapeutic medical visits to outside physicians, medical and surgical specialists, dentists, outpatient clinics, emergency rooms, or hospitals. Students are strongly encouraged to purchase supplemental health insurance. A health insurance policy is available at a low group rate for students who take six or more credit hours a semester.

In case of emergency on campus, Public Safety - Campus Police Department should be called, 24 hours a day, at (305) 348-5911 (UP) or (305) 919-5911 (BBC).

The Wellness Center advocates healthy lifestyle choices by providing a variety of health promotion activities and workshops for students, student organizations, and academic classes. The Wellness Resource Library has textbooks, brochures, videos, audiotapes, video laser discs, and the computer interactive programs "Dine Healthy" personal diet assessment and "Alcohol 101". Personal health consultations are available for a variety of topics: nutrition, TriFit/Microfit computerized fitness assessments, stress management, and smoking cessation. The Wellness Center also sponsors several student organizations,
including peer health educator programs and student clubs (i.e., SHAPE, STRIKE, and Weight Management Club).

University Park
Location: Health Care & Wellness Center (HCWC building)
Phone Number(s): (305 prefix) 348-2401
General Information and Appointments 348-2401
Immunization 348-2488
Business Manager, Insurance 348-6839
Administration 348-3080
Wellness Center (2nd floor) 348-4020
Fax:
Health Care Center
Immunization 348-3336
Wellness Center
Administration 348-6655
Biscayne Bay Campus
Location: Health Care Center (HCWC Building located by parking lot 1-C), Wellness Center (across from the Campus Support Complex)
Phone Number(s): (305 prefix) 919-5620
Information and Appointments 919-5620
Wellness Center 919-5307
Immunizations 919-5675
Fax:
Health Care Center 919-5312
Wellness Center 919-5371
Web Site: http://www.fiu.edu/health

Student Media
Student media at FIU include The Beacon newspaper and WRGP radio.

The Beacon is an editorially independent publication produced by students and distributed free. The purpose of The Beacon is to keep the University community informed about campus news events and activities; to serve as a forum for opinion and commentary concerning campus related topics; and to protect the interests of the University community and its component parts. It is published each Tuesday during the Fall and Spring terms, except during holiday breaks. It is also published eight times during the Summer term. Students can work on the staff in news and features, photography, and/or advertising. No prior experience is required.

WRGP is FIU's radio station located at 88.1 FM. Its programming is an eclectic mix of the latest music on the cutting edge of the alternative scene, FIU sports play-by-play, and news. Programming also includes weekly specialty shows that cover the music spectrum of metal to reggae, and in between is Caribbean, hip-hop, rap, Latin rock, and jazz. The station operates from 7 a.m. to past midnight seven days a week. The station provides a means for students to acquire experience in various disciplines related to the broadcast industry, including hands-on experience in a realistic, business-like setting encompassing teamwork and professional standards. Students can work in areas such as broadcasting, business, promotions, and/or engineering. Prior experience is not required.

Location: The Beacon, GC 210 University Park (305) 348-1580, WUC 220, Biscayne Bay Campus (305) 919-5668. WRGP, GC 319, University Park, (305) 348-3071.

Housing & Residential Life
Housing & Residential Life provides housing for students at both the University Park and Biscayne Bay campuses. There are four housing complexes located at the University Park Campus. They include three new state-of-the-art housing facilities that have been opened in the last six years providing on campus housing for additional 1,300 students. Total housing capacity on the University Park Campus is 1,900 bed spaces. At the Biscayne Bay campus, the newly renovated Bay Vista housing facility serves approximately 300 students. There are multiple room types providing a variety of different levels of accommodations to meet housing needs.

All of the housing facilities have fast Ethernet connections, unlimited access to the web, basic cable television, local telephone service, and utilities are included in the room rental rate. Each of the residence halls is staffed with both professional and paraprofessional personnel to ensure the facilities are safe and well maintained. The residence halls also feature several Living and Learning Communities that include FYRST (First Year Residents Succeeding Together), Honors Place, Wellness, and Leaders in Residence. For more information regarding services and accommodations please visit our web page at http://www.fiu.edu/~housing.

All housing agreements are issued for the academic year with summer assignments available. A $150.00 deposit is required at the time of application, of which $50.00 is a non-refundable processing fee.

International Student and Scholar Services
International Student and Scholar Services provides assistance to international students, faculty, and researchers in non-immigrant status. The staff provides advising services on immigration, cultural, personal, social, and financial concerns.

The department serves as a liaison to academic and administrative departments throughout the University. An orientation program is offered each semester as well as social and cultural programs to assist students in adapting more effectively to the University community and to living in Miami. An active International Student Club on each campus collaborates with the department in organizing various social activities. Club programs enable students to participate in the international dimension of the University and provide opportunities for involvement in the greater Miami community.

Location: GC 242, University Park, (305) 348-2421; WUC 257, Biscayne Bay Campus, (305) 919-5813.

Multicultural Programs and Services
The Office of Multicultural Programs and Services is comprised of Collegiate and Precollegiate programs. Collegiate Programs provide students with personal, academic, social, and cultural support needed for the achievement of educational goals. Staff provide orientation, leadership development, counseling, career and academic advisement, financial assistance, tutorials, and serve as a liaison to academic units and student support services University-wide. This department also collaborates with student groups in coordinating traditional cultural celebrations and other activities for minority students.

Location: GC 216, University Park, (305) 348-2436; WUC 253, Biscayne Bay Campus, (305) 919-5817.

Precollegiate Programs provide academic enrichment, career planning, and scholarship opportunities to promising minority students at the high school level.
also expose high school students to the University environment and facilitate their transition to college.

Location: GC 216, University Park, (305) 348-2436.

The office manages two TRIO Program Grants. The Student Support Services Program is a federally funded program aimed at increasing the retention and graduation rates of first generation college students until they earn their baccalaureate degree. The Upward Bound precollegiate program provides supplemental instruction in academic areas, counseling, and life-skills training with the major objective of stimulating interest in attending college.

Location (Student Support Services) GC 216, University Park, (305) 348-2436; WUC 253, Biscayne Bay Campus, (305) 919-5817. (Upward Bound Program) GC 225, University Park, (305) 348-1742.

Office of the Ombudsman

The Ombudsman Office acts as an impartial and confidential forum to assist students who have encountered problems or conflicts at the University, particularly problems or concerns not adequately addressed through normal channels. This may include correcting processes or procedures, which are incapable of resolving the issue, or are causing an inordinate delay. The Ombudsman may resolve problems through various methods, including investigation, mediation, or making referrals to the appropriate University department for review. The Ombudsman should be utilized in situations where all areas of appeal have been exhausted or proven unsuccessful.

For more information or services, please contact the Office of the Ombudsman at (305) 348-2797 located in Graham Center 219.

Orientation and Commuter Student Services

The Office of Orientation & Commuter Student Services provides resources, services, and programs to new students and the University’s commuter student population. The “Panther Preview” Orientation program is designed to assist new students with the transition to university life by introducing them to the vast array of resources available at FIU, providing time to work with an Academic Advisor, and giving them an opportunity to get to know their new classmates. A mandatory two-day program for freshmen and a half-day session for transfer students are held prior to the Fall, Spring, and Summer semesters. A one-day parent program is also offered during each freshman session to introduce parents to FIU and assist them with preparing to meet the challenges of parenting a college student. Information about registering for Orientation is mailed to newly admitted undergraduate students prior to the first term of enrollment.

The Commuter Center, located at University Park, assists students with obtaining information that may aid them in making a smooth matriculation to the University. A variety of services are available at the Center including: off-campus housing information, campus maps, Student Handbooks, parking information, local telephone access, and child care information. In addition to a variety of University resources, the Center also provides a variety of programs and brochures for FIU’s commuter students, as well as extended hours of operation.

Location: GC 112A, University Park, (305) 348-3828; WUC 363, Biscayne Bay Campus, (305) 919-5804.

Student Judicial and Mediation Services

The mission of Judicial and Mediation Services is to promote concepts of respect, civility, fairness, and conflict resolution on campus by enforcing community standards (FIU policies, federal, state, and local laws) and holding students accountable for their behavior in a fair, yet developmental manner, through the involvement of the campus community and educational development of students.

Infringement of an academic nature should be directed to the Office of the Provost. Complaints that are non-academic should be directed to Judicial and Mediation Services.

The Office of Judicial and Mediation Services also provides the following:

- Background checks for various agencies (Secret Service, FBI, CIA, State Department, DEA, Federal Marshals, Law Enforcement Agencies, Military, Graduate Schools, Law Schools, Dean Certifications, Florida Bar Examiners).
- Selection and training of judicial board members, hearing officers, and mediations.
- Admissions clearances - The University reserves the right to review the case of any student who has been involved in misconduct prior to admission to determine eligibility for admission.

Please refer to the Student Code of Conduct section in the Student Handbook for more information regarding the Judicial and Mediation processes and procedures. Handbooks are available in Orientation and Commuter Student Services in Graham Center 112A and Campus Life in Wolfe University Center 363.

Location: GC 331, University Park, (305) 348-3939.

University Centers

The University Center on each campus provides direct services to students and the University community. The Graham Center (GC) at University Park and the Wolfe Center (WUC) at Biscayne Bay Campus are the focal points for the University community to meet and interact in a non-classroom, educational environment. Staff in the centers coordinate the scheduling of space and assist with the production of student and University-sponsored events.

As the hubs of University life, the buildings house the offices of Student Government Association (SGA); Student Organizations Council (SOC); The Beacon student newspaper; Faculty Club, and departments of the Division of Student Affairs that provide services to students: Career Services, Counseling and Psychological Services, Office of Disability Services for Students, International Student and Scholar Services, Victim Advocacy Center, Leadership Development, Kaplan Centers, Office of Multicultural Programs and Services, Campus Life, Women’s Center, Volunteer Action Center, and Judicial and Mediation Services.

The University Centers also offer the services of computer labs, bookstores, cafeterias, grills, vending machines, credit unions, copy centers, automatic banking facilities, auditoriums, lounges, meeting rooms, ballrooms, movie theaters, and game rooms. Other services include; Lost and Found, locker rentals, vending refunds, test preparation courses, and Photo I.D. card.

The Graham Center houses the Office of the Vice President for Student
Affairs, classrooms, an art gallery, the Radio Station (WRGP), TicketMaster, a satellite cashiering office, a food court offering Pollo Tropical, Subway, Mex-Tex, Pizza Hut, Burger King, Edy's Ice Cream, Smoothie Time Health Food, and a coffee shop. The mini-mall offers a credit union, computer store, convenience store, copy center, bookstore, hair and nail salon, and travel agency.

The Wolfe Center, at the Biscayne Bay Campus houses a theater, parking services, and a credit union.

The administrative offices of the University Centers are located, as follows: GC 104 at University Park (305) 348-2297; WUC 325 at Biscayne Bay Campus (305) 940-5800.

**Victim Advocacy Center**

The Victim Advocacy Center provides support services to victims and survivors of crime and abuse for FIU students, faculty, staff, and university visitors. Services are confidential and free of charge, and address such issues as sexual violence, relationship/dating abuse, stalking, assault and battery, hate crimes, harassment, and survivors of homicide and/or child abuse. The Center also provides awareness and prevention educational programs for the community, and volunteer training for FIU students. In addition, the Center engages in research regarding effective intervention and receives funding to make national policy recommendations. A resource library is available for student use at the University Park office. Persons who have experienced victimization are encouraged to seek services from the Victim Advocacy Center.

Location: GC 195A, University Park (305) 348-1215; By appt: WUC 257E, Biscayne Bay Campus.

**Women's Center**

The Women's Center offers various programs and services related to the intellectual, social, and professional growth of women. Through collective efforts, the Center advocates for systemic changes that will improve the lives of women and men. Center programming focuses on the particular needs of women students, and encourages women to learn more about themselves, other women, and the environment in which they live. The Mentoring Partnership Program, a joint effort with the Office of Alumni Relations, promotes the professional and leadership success of FIU students. All programs are open to the entire community. Services provided by the Center focus on women, and include, confidential referrals, scholarships, information, library and resource files, and opportunities for volunteers.

**Grants and Research**

Grants and Research plans, prepares, submits, and monitors external grant applications for the Division of Student Affairs. The office also researches and investigates potential grant opportunities, provides direction in the monitoring and evaluation of externally funded programs initiated by staff members, and serves as liaison with the University's Sponsored Research Office. This office develops partnerships with community and local educational agencies and acts as liaison with private and public agencies and organizations. Training is provided for Division staff regarding development and management of external funding opportunities. Policies regarding grants and grant writing are formulated and implemented. Grants and Research also directs grant budgets and oversees budgeting of obtained grants.

Location: GC 331, University Park, (305) 348-2446.

**Counseling and Psychological Services**

The Counseling and Psychological Services Center offers a spectrum of mental health services which enhance the emotional and cognitive well-being of students. Individual, couple, and group counseling are offered. Biofeedback services and neuropsychological testing are also available. Programs available to the University community include psychoeducational workshops and seminars related to marriage, parenting, and mental health issues. Consultation services can be utilized by faculty or staff regarding student concerns. All services are confidential.

Location: GC 211, University Park, (305) 348-2434; WUC 320, Biscayne Bay Campus, (305) 919-5305.

**Biscayne Bay Campus Recreational Sports**

Biscayne Bay Campus Recreational Sports provides a variety of recreational, aquatic, and educational experiences. It contributes to the personal development of students and others by providing a variety of activities designed to enhance physical health while fostering an appreciation of competition, social skills, and cultural diversity.

The program includes the following: intramurals, aerobics and step and boxing aerobics, nautilus and weight training, swimming classes, lifeguard training, tennis clinics, swim/sports camps, fitness center, aquatic center, tennis facility and GMAC water polo tournaments. Special events include deep sea fishing, golf, turkey trot, and two bench press competitions.

Location: Biscayne Bay Campus Recreation Office, (305) 919-4571.

**Human Resources**

The Office of Human Resources provides human resource management services for staff members and employees of all academic and administrative departments including student employees, research or graduate assistants, college work study and OPS employees on all campuses. All services provided by the office are in compliance with applicable federal and state regulations, and include six major human resources areas—Employment/Recruitment, Compensation/Classification, Employee Professional Development Programs, Employee Benefits, Personnel Records and Workers' Compensation, Employee and Labor Relations.

The University Park office is located in PC 224, 348-2181; the Biscayne Bay Campus office is located at 322-A Library Building, 919-5545.
College of Continuing and Professional Studies

The mission of the College of Continuing and Professional Studies is to develop and implement quality educational programs and services in partnership with the academic, business, and professional communities. The instructional and academic resources of the University will be extended through innovative approaches including distance learning, alternative scheduling, and community-based academic credit programs. State-of-the-art technological capabilities offer a high-quality learning environment at the Kovens Conference Center or at a customer’s location. A professional and courteous team is dedicated to the highest standards of customer satisfaction. Local, state, national, and international communities will be served with consistent, cost-effective, high quality and distinctive programs and services.

The CCAPS carries out its mission to extend lifelong learning opportunities to adult and non-traditional students by providing increased access to University programs. Courses of instruction are developed and offered in a variety of formats.

Academic Credit Programs

Degree and certificate programs, as well as courses for academic credit are scheduled to meet student needs by offering them at times and locations that will increase learning opportunities. More than 200 courses for academic credit are offered annually off-campus in Dade, Broward, and Monroe Counties. Weekend and cohort degree programs for working professionals are offered in collaboration with the University’s colleges and schools. Instruction using telecommunications is offered between campuses, public schools, and other locations with the proper equipment.

An individual, employer, public agency or professional organization may request that a specific course or degree program be offered, and may contract with the University to provide credit courses and degree programs at the work site to benefit a designated group of individuals. Study Abroad courses are also available in several academic disciplines in Europe, Asia, Africa, Latin America and the Caribbean.

Students may register for CCAPS credit courses through the traditional registration process at Biscayne Bay Campus or University Park. Special on-site registration arrangements are made for students who meet at off-campus locations. For more information on Academic Credit Programs call (305) 348-5669.

Non-Credit Programs

In its effort to provide lifelong learning opportunities to adult students, the College of Continuing and Professional Studies offers professional and personal enrichment programs and courses to diverse populations throughout Miami-Dade, Broward and Monroe Counties.

Academy For Lifelong Learning

Using the Kovens Conference Center as its base, personal enrichment courses are offered in the arts, current events, international relations, language, and personal growth in multiple sites in Miami-Dade, Monroe and Broward Counties. Students of all ages can avail themselves of experts in these fields, many of whom are regular faculty at Florida International University. For more information call (305) 919-5669.

Distance Learning

Distance Learning coordinates credit & Professional Development courses through state-of-the-art technology. Students are linked with professors electronically through television, computers, videotape, video conferencing, satellite teleconferencing, and other innovative technologies. Learning can occur in the home, in offices, in the community, or at Adult Education Centers convenient to the learner.

Distance Learning may occur anytime during the day at the convenience of the learner. Some instruction occurs at specific times and in specific locations on and off-campus. Instead of taking time to travel to and from campuses, students with job and family responsibilities may now tailor their academic work to their own busy schedules.

Each Distance Learning course is the equivalent of an on-campus section of the same course as to learning objectives, course content, and transferability. Students must meet stated prerequisites or assessment scores where applicable. Distance Learning courses provide the student a higher degree of scheduling flexibility.

For more information about Distance Learning and course offerings, call (305) 919-5217.

Legal Studies Program

The College of Continuing and Professional Studies offers the following Legal Studies Programs: Legal Assistant, Legal Secretary, Law and Business Office Management, Immigration and Nationality Law, Medical/Legal Consultant, Family Mediation Training, Circuit Civil Mediation Training, Pre-Licensing Risk Management course for health care providers, and other courses for attorneys and paralegals. For more information call (305) 348-2491.

Kovens Conference Center

The Roz and Cal Kovens Conference Center at Florida International University supports the teaching, research, and public service mission of the University by offering an outstanding conference and meeting environment. Conference Center staff deliver quality meeting planning support services, and programs that meet or exceed the expectations of all internal and external clients of the Center. Whether it is an academic symposium, a governmental assembly, a civic gathering, a professional seminar, an industrial/technological conference or a multinational corporate meeting, the Kovens Conference Center has a full array of University resources, faculty and staff available.

The Center is fully equipped with state-of-the-art telecommunications resources including computer labs, video-conferencing, audio/visual services, and case study rooms. Conferences have access to uplink/downlink satellite transmission enabling them to transmit to and from locations throughout the world. Simultaneous translation capabilities for up to three languages are also available. This exceptional array of communications services can satisfy the needs of the most demanding clientele. For more information call the Kovens Conference Center at (305)-919-5000.

Conference Services

Kovens Conference Center staff are available to help you transform your program ideas into successful conferences, workshops, seminars, institutes, meetings and other related educational activities. Before the program, staff can help with program planning and concept design.
coordinate bid preparations, coordinate promotional activities, and coordinate all other meeting logistics. These services are available for off campus conferences as well.

During the program, staff will provide all program support services including directional signs, registration, arrange for required audiovisual, telecommunications, simultaneous translation, computer needs, and issue Continuing Education Units. After the program, staff will wrap-up all conference logistical details, process payment of all invoices, tabulate evaluations, and prepare final financial statements.

For more information, contact Florida International University's Kovens Conference Services staff at (305) 919-5000.

University Outreach Marketing

Outreach Marketing is responsible for promoting lifelong learning programs, and Kovens Conference Center activities. This office provides professional creative and artistic means of publicizing programs and services, including the development and distribution of publications, advertising, and public information. For more information on Outreach Marketing call (305) 919-5669.
Governmental Affairs

The Governmental Affairs unit of the Office of the Provost advocates university priorities to local, state and federal governments. The vice provost for Governmental Affairs coordinates the unit and provides advice and support to the Provost and the President of the University.

Governmental Relations - State
The director of Governmental Relations maintains a productive rapport with state government, particularly the State Legislature to maximize state funding; maintains positive rapport with the County Commission and community leaders as required.

Governmental Relations - Federal
The University’s Washington based representative works in close coordination with the Division of Sponsored Research and the vice provost represents the University at the federal level of government and develops congressional and federal agency support for the University’s sponsored research initiatives.
Intercollegiate Athletics & Campus Recreation

FIU is a member of the National Collegiate Athletic Association (NCAA), and the Sun Belt Conference for men and women. The University has competed at the Division I-AAA level since September of 1987 prior to that competed successfully at the Division II level since 1972. Programs and services in Intercollegiate Athletics provide an opportunity for student-athletes to develop as skilled performers in an educational setting. Much emphasis is placed on the student as a student-athlete to ensure intellectual, emotional and social well being.

Athletics
Athletic team membership is open to all full-time students, who meet NCAA eligibility requirements and are enrolled in 12 credits. Women's programs consist of basketball, volleyball, soccer, golf, tennis, track, softball, and cross-country. Men's programs consist of basketball, football, soccer, baseball, track and cross-country. To be eligible for intercollegiate competition, the University requires each student-athlete to be in good academic standing and make satisfactory progress toward a degree. Team membership is determined in a manner, which does not discriminate based on race, sex, national origin, marital status, age or disability.

Financial assistance is available to both freshmen and transfer students recruited for all 16 athletic teams. Assistance may include grants, scholarships, loans or self-help programs. To be eligible for financial assistance, each student-athlete must be in good academic standing and make satisfactory progress toward a degree.

Athletic Facilities
The Golden Panther Athletic Facilities encompasses seven facilities that serve as the sites for athletic, educational and recreational activities.

The Golden Panther Arena is a multi-purpose facility. There is a seating capacity for special events of 5,150. The main floor can hold four volleyball courts and two basketball courts. The two auxiliary gyms can each hold one full basketball court or a volleyball court. Also housed in the arena are four racquetball courts, five classrooms and six locker rooms. The arena is open to students, faculty, staff and alumni with a valid Recreational Pass.

The FIU Soccer and FIU Softball stadiums are the home of our intercollegiate men's and women's programs. Both stadiums are lighted. The soccer stadium seats 1,500 and the softball stadium seats 300.

The FIU Tennis Center has twelve lighted courts and is home to the Women's tennis program. The courts are also open for daily recreational play.

The FIU Community Stadium is a Football and Track facility. The stadium is the home of our intercollegiate football program, and is also the home of our men's and women's track and field programs. In the fall, the facility is used to host many Miami-Dade County Schools high school football games.

The University Park Baseball Stadium is the home to our intercollegiate baseball team. The newly renovated stadium has a seating capacity of 1,600.

FIU students are admitted to all regular season intercollegiate athletic home events free of charge. Presentation of a valid University identification card is required.

For additional information please call: FIU Athletic Facilities 348-3258; Golden Panther Box Office 348-4263 (FIU-GAME)

Campus Recreation
Campus Recreation offers recreational sports and fitness programs and facilities to Florida International University students, faculty, staff and alumni. Funding for Campus Recreation is primarily through student fees allocated by the FIU Student Government Association (SGA).

A variety of Intramural (IM Sports) are offered, including men's, women's and co-rec leagues in sports such as flag football, basketball, volleyball, softball and soccer, and tournaments for racquetball, tennis, and golf. Individuals looking for a team are encouraged to register as "free agents". Registration for all Intramural Sports can be completed on the Web on the Campus Recreation website.

The Student Fitness Center (SFC) is equipped with a variety of modern exercise and cardiovascular fitness equipment. In addition to free weights, Body Master and Paramount resistance equipment, stair climbers, upright and recumbent bicycles, treadmills, rowers, Nautilus machines and elliptical rowers are featured. The SFC is located adjacent to the Golden Panther Arena (GPA).

Low or no-cost Aerobics classes, including spinning, kick boxing and step, are offered throughout the year, as are specialty classes such as yoga and belly dancing. Fitness orientations, body composition evaluations, and personal training are featured services at the Student Fitness Center.

The Golden Panther Arena provides recreational basketball, volleyball and badminton courts for limited drop-in use, and 3 indoor racquetball courts available on a reservation basis. The Tennis and Racquetball Center offers six recreational tennis courts and eight 3-wall racquetball courts (all lighted for evening play). Tennis lessons are available. On-campus swimming is available at Panther Hall Pool, and students have access to nearby Tamiami Pool during lap swim hours. A current, activated Golden Panther photo ID is required for access to all recreation facilities and programs.

Campus Recreation provides student employment opportunities as sports officials, fitness center attendants and supervisors, lifeguards, aerobics instructors, office assistants and more.

For additional information, call: Campus Recreation: 348-2951
Student Fitness Center: 348-2575
Panther Hall Pool: 348-1895
Golden Panther Arena: 348-2900
IM Sports: 348-1054
Tennis Center: 348-6327
Web Site: www.fiu.edu/---camprec

(For Biscayne Bay Recreational Sports, see Student Affairs)
Centers and Institutes

Jerome Bain Real Estate Institute
The Jerome Bain Real Estate Institute, a partnership between Florida International University’s College of Business Administration and the Realtor Association of Greater Miami and the Beaches, exists to create value for real estate firms and the real estate industry through its educational, research, and service activities. It is fast becoming a premier, University-based real estate educational and research center, known for its exceptional expertise in international real estate transactions.

The Center supports the College’s undergraduate academic major in real estate and is developing a graduate program in the field as well. Graduates have a solid grasp of issues facing the industry and of real estate business theory and practice.

The Center also sponsors theoretical and applied research on real estate topics and supports faculty research in this area. It is a repository for data related to real estate markets and periodically issues information on current market characteristics and future market conditions.

The Center offers management training seminars, symposia and conferences on topics of interest to professionals in the real estate industry. It also coordinates the provision of educational programs relating to certification and the continuing education needs of real estate professionals.

The Institute is located in the Ryder Business Building, University Park Campus, BA 232, (305) 348-2771, jbre@fiu.edu.

Center for Accounting, Auditing, and Tax Studies
The Center for Accounting, Auditing, and Tax Studies (CAATS), housed within the College of Business Administration and its School of Accounting, conducts and sponsors innovative research. Major ongoing projects focus on the audit impact of emerging technology and on the detection of fraud.

CAATS builds bridges to practitioners by turning ideas into products; it enhances the value of accountants’ services to clients and to the public by contributing to audit efficiency and effectiveness. CAATS’ international commitments relate to the accounting issues confronting the less developed nations, particularly in the Middle East and Latin America.

CAATS also conducts seminars and short courses designed to provide educational opportunities to South Florida public accountants, internal auditors, and management accountants. CAATS strives to be self-supporting. Net fees earned by providing educational opportunities to accountants, together with contributions received from the public, are applied to research and to the enrichment of graduate instruction. In this way, CAATS provides the margin of excellence which enriches the entire educational experience.

All CAATS activity is dedicated to advancing accounting, auditing, and tax knowledge. CAATS is located in the Ryder Business Building, University Park. Felix Pomeranz, (305) 348-2581; pomeranf@fiu.edu.

Center for the Administration of Justice
The Center for the Administration of Justice (CAJ) was founded at Florida International University, a member of the State University System of Florida, in 1984 to engage in research, training and public education about the administration of justice in Latin America. With offices in Miami and San Jose, Costa Rica, CAJ has become a unique international resource at the forefront of justice sector reform in Latin America.

CAJ employs a multidisciplinary and international staff of specialists, including lawyers, political scientists, public administrators and public policy analysts. Many are former justice sector officials with experience and skills in justice sector issues.

Giving special emphasis on support to local efforts to strengthen and invigorate fair and independent justice systems, the CAJ regularly works with public officials, scholars and practitioners in Latin America.

The CAJ has become a leading source of information and leadership on justice sector reform issues in Latin America. Its assessments have been widely disseminated and have been critical in public policy decision-making throughout the region. Luis Salas, (305) 919-5952; salasl@fiu.edu

Center for Advanced Technology and Education (NSF-CATE)
Introduction
The NSF-funded Center for Advanced Technology and Education - CATE provides a computing environment capable of engaging researchers as well as facilitating classroom and laboratory-based instruction in critical technology areas. CATE constitutes an infrastructure that is viable for cutting-edge research activities providing an environment that enhances the potential for: (a) Parallel and distributed processing, (b) high performance 3-D graphics for simulation, rendering and modeling, (c) real-time processing capability, (d) operating systems, graphics and software development that meet current standards, and (e) high-speed data acquisition, playback, and analysis.

Research Areas
• Image Processing and Computer Vision
• EEG-Based Imaging
• Robotics
• Real-time and Multidimensional Signal Processing
• Confocal Microscopy
• Flow Cytometry
• Human-Computer Interface Research

Main Equipment
• ESI-256 System, an Electrical System Imaging as a Human-Computer Interface for Brain Research
• Onyx supercomputer for true supercomputing and Graphics power
• Confocal Microscope for RCM 8000 real-time confocal microscopy for time-varying 3-D imagery.
• Coulter EPICS Profile II Cytometer for measuring light scatter (fluorescence or laser) of microscopic particles.
• Nomadic Mobile Robot (Nomad200) with integrated sensory modules.
• Workstations with 22 Indys, 11 Pentium PCs

Human Resources
Director: Malek Ad Jouadi, Ph.D.
Manager: Patricio Vidal, M.Sc.
Support Staff: Julio Blandon, Erika Suarez, Luz Camacho, Claudia Rodrigues
Faculty: Armando Barreto, Ph.D., James Story, Ph.D.; Gustavo Roig, Ph.D.; Wummava Subbarao, Ph.D.; Ana Pasztor, Ph.D.; Maria Martinez, Ph.D.; and Julie Jacko, Ph.D.
Student Support: 9 Graduates and 5 Undergraduates
Malem Adjouadi, (305) 348-3019; malek@vision.fiu.edu.

Center for International Business Education and Research (CIBER)
Established in 1995 and housed in Florida International University's College of Business Administration, the Center for International Business and Research (CIBER) exists to promote teaching, research, and outreach aimed at helping students, faculty, and businesses identify and address the challenges posed by a global economy. More specifically, it seeks to internationalize these stakeholders in order to improve the competitiveness of U.S. firms in world markets.

The Center supports the international focus of the College's academic programs and the University's language-oriented courses. With the University's Department of Modern Languages, and Spanish Language Institute the center offers "Languages for Business" courses in Spanish, French, Japanese, and Portuguese. It also sponsors an international business honors course and study-abroad programs for students.

The Center, in concert with Modern Languages, the Latin American and Caribbean Center (LACC), the Asian Studies Institute, the Summit of the Americas Center, and Miami Dade Community College, conducts a number of conferences. It has coordinated programs to support Miami-Dade County's "One Community, One Goal" economic development plan. It runs the "Faculty Development in International Business—South America" study tour for faculty. In addition, the Center publishes an annual "Working Paper Series" describing various research projects for the year.

Furthermore, the Center supports faculty by way of grants and assistance for international activities.

The Center is located in the Ryder Business Building on the University Park Campus, (305) 347-1780.

Center for Urban Education and Innovation
The mission of the Center for Urban Education & Innovation is to facilitate and support basic and applied research, professional service to the educational community, and public advocacy relating to critical issues in urban school systems in Southeast Florida and beyond. Programs and activities of the Center focus on improving student achievement, enhancing the quality and responsiveness of schools as learning institutions, and contributing to the development of theory and practice in areas addressing the needs of students and families from diverse racial, cultural, socio-economic and linguistic backgrounds.
Contact: Dr. Lisa Delpit, (305) 348-6463; delpitl@fiu.edu.

Center for Youth Development (CYD)
The Center for Youth Development (CYD) located at University Park Campus is a multidisciplinary institution founded to conduct research aimed at the improved understanding and prevention of health-risk behaviors and environments that impair the healthy development of urban youth. In pursuing this goal, the CYD emphasizes understanding individual development as it occurs in diverse contexts including families, peer groups, schools, communities, and different cultures. The CYD is aimed at integrating ongoing research programs and training opportunities with the application and evaluation of youth-focused prevention/intervention programming in community settings.

Researchers and practitioners associated with the CYD strive to share and integrate knowledge about the health behaviors of at-risk youth. Similarly, the CYD provides opportunities for collaboration and sharing of appropriate and effective health-related methodologies, e.g., with regard to assessment, intervention, or evaluation. One premise of the CYD is that to maintain positive changes in the communities served by FIU, the CYD has a responsibility to train students to go back into their communities as agents of change. Through the CYD, FIU students will help to implement research and inter-vention programs, disseminate health-related research into local communities, act as mentors for at-risk youth, and begin to form a community-based network of professionals who potentially will serve as links in continuing collaborations between FIU and local communities.

Faculty interest in the problems of youth has been the impetus for the formation of the CYD. Faculty associated with the CYD have active programs of research that involve publishing articles in relevant journals and pursuing extramural funding initiatives. In addition, CYD members teach a wide array of classes focusing on the lives of at-risk youth.

As FIU students acquire research and service experiences via community outreach, students: a) become invested in the well-being of local communities; b) make more con-tinuous transitions to work following college; and, c) serve as a network of continuing contacts between FIU and local communities.

For more information, call (305) 348-3341, or write to Dr. Lilly M. Langer, Director, Center for Youth Development, University Park DM 332B, Miami, Florida 33199. Email: langerl@fiu.edu

Institute on Children and Families at Risk
The Institute on Children and Families at Risk was established by the School of Social Work at Florida International University in 1991. The Institute promotes research, demonstration projects, training, and technical assistance to address the needs of children, youth, families, and the systems that support them. With an emphasis on prevention, and intervention research, the Institute also designs and evaluates improvements in 'helping' technologies for all service systems supporting at-risk children and families.

Emphasizing partnerships at the local, state and national level, the Institute collaborates with a number of institutions, organizations and sectors to promote technology transfer, joint demonstration projects and capacity-building efforts. Special emphasis is on the link between universities, public sector social health services and public schools. The Institute provides con-
sulting services both nationally and internationally.

The Institute also serves as the research and development arm of the School of Social Work and provides research opportunities for master's and doctoral-level students. Its cross-systems endeavors also depend on the leadership and expertise of faculty and students in other disciplines at Florida International University, at several other universities in the South Florida area and the staff of the State of Florida's Department of Health and Rehabilitative Services staff.

Barbara Thomlison, (305) 919-4838; Barbara.thomlison@fiu.edu.

Drinking Water Research Center

The Drinking Water Research Center (DWRC) was established by the Florida Legislature in 1977, and charged with the responsibility for conducting applied research on the State's drinking water. Since that time, the Center has responded to state, national and global environmental concerns by expanding its research focus to cover a wide spectrum of water-related environmental issues. The main focus of the Center’s research activities includes basic and applied research as it relates to drinking water quality and quantity. The Center provides research opportunities for undergraduate and graduate students to conduct independent studies in cooperation with other departments within the university, state agencies, and private organizations. The Center's laboratory facilities are certified by the State of Florida to analyze chlorination by-products in water samples.

Examples of the current research activities conducted at the Center include assessment of technologies to remove petroleum hydrocarbons from water, speciation of metals in sediments, experimental and mathematical modeling of fate and transport of contaminants in the environment, dynamics of chemical transformations in natural and engineered systems, pesticide sorption in various geosorbents, surfactant-amended remediation, use of microscopic image processing techniques to characterize particles in water samples, development of new and improvement of established analytical methods for detection and measurement of contaminants in water and soil samples, development of pollution prevention measures in support of industrial ecology. In addition to research activities, the Center also conducts short courses, seminars and workshops for training of environmental professionals in the areas of water treatment, new analytical methods, and drinking water regulations.

The Center is part of the College of Engineering, and it is located at EAS, 3390, (305) 348-2826, www.fiu.edu/~dwrc.

Research and Support Staff:
Berrin Tansel, Ph.D., P.E., Director, Associate Professor, Civil and Environmental Engineering Department
Mehrzad Mehran, Pharm. D., Senior Research Scientist
Nahid Golkar, M.S., Research Scientist

Center of Economic Research and Education

The Center of Economic Research and Education is a Type II Center approved by the Board of Regents of the State University System. The purpose of the Center is to foster a greater understanding of economics. The Center represents an important link between the University, business, and education communities. As part of its activities, the Center undertakes research projects, sponsors conferences and seminars, provides courses in economic education for teachers, and disseminates economic data and information.

Established in 1982 as one of eight centers located throughout the State University System, the Center is located in DM 319B, University Park. Its phone number is (305) 348-3283.

International Institute of Educational Development

The International Institute of Educational Development (IIED) is a multidisciplinary unit based in the College of Education whose mission includes: (1) planning, technical assistance, training and research in support of educational systems development internationally and (2) multi-institutional collaboration in educational development projects and research and (3) to support graduate programs in international and intercultural development education.

For more information call (305) 348-3418, or write to Dr. Miguel A. Escotet, Director, International Institute of Educational Development, College of Education, University Park Campus, Miami, Florida 33199. E-Mail: jide@fiu.edu

Institute for Workforce Competitiveness

The Institute for Workforce Competitiveness (IWC) was established by the College of Education in 1997, and designated as a Type III Institute by the Florida State University System's Board of Regents in 1997. Since that date, the IWC excelled in providing professional development activities, evaluation services, and technical assistance in support of workforce development initiatives to states, regions, local communities, and national territories.

The IWC mission is to improve workforce development and utilization through research, technical assistance, and partnership development, and utilizes five key research goals to guide project activities: 1. Provide reliable data and analysis contributing to the knowledge and literature base for workforce development, 2. Implement a dissemination strategy in which information on workforce development is provided to a wide range of audiences, 3. Provide information for the identification of appropriate programmatic outcomes and policy changes based on sound research and practices, 4. Conduct research studies that include all relevant academic disciplines in order to address complex workforce development and utilization issues and problems in schools, 5. Conduct research on workforce development initiatives in schools to determine impacts on student achievement and workforce competitiveness.

The Institute for Workforce Competitiveness is located in TC 31, Room 102. For a additional information please visit the Institute's web site at www.fiu.edu/~iwc or telephone (305) 348-6529.

Institute for Lifelong Learning

The Institute for Lifelong Learning is the older learner continuing education program of the Center on Aging. Since 1977 it has provided for the educational needs of senior adults at the University’s Biscayne Bay Campus. The Institute’s mission is to plan, design and manage non-credit short courses, lectures and seminars for older learners. Programs in the humanities,
English Language Institute

Since 1978, the English Language Institute (ELI) has offered non-credit English language instruction to non-native speakers of English in the community and from abroad.

Intensive English Program: Classes in reading, grammar, writing, and conversation are taught at six levels of proficiency. Language laboratory facilities are available in which students can increase their listening comprehension and speaking skills under the guidance of an instructor. Students normally take a full, three-course load, but it is also possible for fully-admitted University students to take a course in a single skill.

Testing and Placement: The English Language Institute offers proficiency testing of both written and oral proficiency in English as a support service for academic units throughout the University. Evaluative procedures are designed to fit the needs of individual programs or schools, to assist them in the identification of individual students’ level of proficiency in English, and to place students in appropriate programs of study when needed. In addition, the Institute regularly administers the Test of English as a Foreign Language (TOEFL).

Community Outreach Program: The English Language Institute offers non-credit courses in the evening and on Saturday for non-native speakers of English.

Accent Reduction: Accent reduction classes are available for non-native speakers of English who have a good command of the language but who wish to improve their pronunciation.

Other Programs: Business English, Intensive Conversation (immersion), Practical Conversation, Summer Institute. The English Language Institute is located in LC 204, University Park, (305) 348-2222, or web: www.eli.fiu.edu.

FAU-FIU Joint Center for Environmental and Urban Problems

In response to environmental and urban issues, the Florida Legislature established the Joint Center for Environmental and Urban Problems at Florida International University and Florida Atlantic University in 1972. In many years since then, the Joint Center has been involved in the formulation of most of Florida’s growth management laws and policies. The Joint Center is an applied research center that conducts studies on urban and environmental issues and provides public service to government agencies and non-profit organizations. The Joint Center's FIU Office specializes in economic development, urban revitalization, community development, housing, and growth management in South Florida. It is dedicated to conducting high-quality interdisciplinary research and facilitating cooperative projects between FIU and FAU faculty. Since 1998, the Joint Center’s FIU Office has been located downtown Miami and is named the Joint Center for the Metropolitan Office of the Metropolitan Housing Authority, School of Architecture and Planning.

Future Aerospace Science and Technology Center for Cryoelectronics (FAST)

FAST is one of five centers created by the Air Force as part of its minority university enhancement program, providing research experience opportunities for undergraduate and graduate students in the area of Electrical Engineering.

The FAST Center evaluates novel applications of space-based cryoelectronics, initially studying new systems for reduction in losses of feed and phase shift networks in phased array transmitter systems. This involves development of low-loss active integrated LNAs, low-noise phased array or post-processed phased array down-converter receivers, and high gain low loss, low noise micro (and later millimeter) wave circuits and systems for space based applications. Of
particular interest is the ability to design and fabricate integrated systems which could be used as "storable" phased array antennas with, some frequency-agility as well.

Current research is focused on issues relating to: integration and heteroepitaxy of the buffer and dielectric layer with the GaAs semiconductor and 123 high Tc superconductor layers; obtaining good ohmic GaAs contacts at low temperatures, tailoring the surface morphology of the high Tc superconductor to achieve a designed Q value for the passive elements; package design and testing with respect to microwave and thermal cycling consideration, and the identification and minimization of noise sources.

Grover Larkins, (305) 348-3498; larkins@eng.fiu.edu.

The FIU Institute of Government

Since 1982, the Institute of Government, as part of the College of Urban and Public Affairs has provided training, technical assistance, consulting services, policy forums and executive leadership development programs to municipal, county, and state administrators, staff members, appointees, and elected officials in Miami-Dade, Monroe, and Broward Counties. This program draws the university together with the community in which it resides, and couples ideas and skills from many disciplines with working governments.

Upon request, the Institute develops and delivers specialized training for governmental units to address specific needs they have identified. The training is developed in consultation with the clients and can be delivered at their site or at the University. The Institute offers a workshop series for career development for governmental staff as well. The Institute also holds conferences and workshops as a forum for community discussion about and analysis of policy issues of concern to local governments and state departments in the South Florida area. Topics in the past have included "Right-Sizing Government", "The Homeless Problem", "Decision Making in the Aftermath of Hurricane Andrew", and "Implementation of GASB 34 in Local Governments".

Technical assistance and applied research services are also provided for a wide variety of units and divisions within state and local governments. Issues that may be addressed include public management, public policy analysis, and service delivery systems.

The Institute also conducts strategic planning and organizational development sessions to allow organizations to build capacity for achieving "best practice". The Institute has developed expertise in performance measurement and other analytic practices.

The Institute and the Department of Public Administration conduct a certificate program the Executive Development Program for mid-level career public and voluntary sector managers. Recently, (1997), the Institute also created the Academy for Strategic Management which focuses on training high level senior managers in strategic planning, benchmarking, performance measurement, contract management, etc. More information is available at iog@fiu.edu, or visit our website at www.fiu.edu/iog.

Howard Frank, (305) 349-1254; howardf@fiu.edu.

High Performance Database Research Center (HPDRC)

HPDRC Mission Statement

The High Performance Database Research Center (HPDRC) conducts research on database management systems and various applications, leading to the development of new types of database systems and the refinement of existing database systems.

The HPDRC, a research division of the Florida International University School of Computer Science, has a strong commitment to training graduate students and preparing them for their future roles as scholars and specialists employed by industry.

Government agencies and industry fund the HPDRC. At $4 million, NASA currently provides the largest amount of money for the Center. Other sponsors include: National Science Foundation ($2.5M), U.S. Department of Defense (BMDO, ARO, USAF, and DISA), U.S. Department of the Interior, U.S. Information Agency, NATO, Florida Department of Commerce, Florida Department of Education and Industry.

HPDRC Research Scope

The HPDRC flagship project is a highly parallel database system based on the semantic/object-oriented approach. Our system:

- provides exceptional usability and flexibility
- allows shorter application design and programming cycles
- gives the user control via an intuitive structure of information
- empowers the end-user to pose complex ad-hoc decision support queries
- provides superior efficiency through a high level of optimization transparent to the user
- allows a manfold reduction in storage size for many applications (such as Data Warehouses)
- is fully internet compatible

The Center also conducts research on such theoretical and applied issues as internet-distributed heterogeneous databases, database design methodology, database design tools, information analysis, multi-media database languages, data compression, spatial databases, and visualization.

In addition, the Center designs specific database systems for highly complex applications. We are presently developing database systems for the Everglades National Park and NASA that are intended for storage and processing of large amounts of earth science observations.

FIU’s Regional Applications Center is a division of the HPDRC chartered by NASA for the purpose of data ingestion from satellites, enhancement of data, and distribution of data to users via internet queries and otherwise.

More information about HPDRC is available at the University Park Campus, ECS 243, (305) 348-1706. fax: (305) 348-1705, e-mail at hpdrc@cs.fiu.edu or visit our website at http://hpdrc.cs.fiu.edu

Knight Ridder Center for Excellence in Management

The Knight Ridder Center for Excellence in Management within Florida International University’s College of Business Administration exists to identify and promote best business management practices among its students, faculty, and alumni, and among the international academic, business, and professional communities it serves.

The Center develops academic programs focusing on enterprise development within the global economy. It coordinates the College’s
Global eMBA program, an executive MBA program for managers in the Americas that emphasizes an interdisciplinary curriculum, a global perspective, project implementation, and adding value to the enterprise. It also is a web-based program, combining Internet course delivery and 4 residency sessions in Miami. In addition, the Center sponsors seminars and conferences that address topics related to excellence in management.

The Center sponsors and promotes faculty development and research in the area of management excellence and best practices and provides funding for some of this research through its summer grant program.

The Center's service and outreach activities include business seminars, executive roundtables, and consulting.

The Center is located in the Ryder Business Building, University Park Campus, (305) 348-3157.

**Professional Development Center**

The Professional Development Center (PDC) at FIU provides experiential, competency-based training to staff of the Florida Department of Children and Families, Division of Family Safety. The Florida Legislature has mandated that child protection counselors, supervisors, specialists, and contracted providers meet strict training and testing requirements to become certified as Child Welfare Professionals. The PDC provides the pre-service training and testing designed to help fulfill the Department of Children and Families' responsibility to ensure that child protection professionals have the basic knowledge, skills, and abilities necessary to perform their duties and are provided with ongoing professional development.

Located on the Biscayne Bay Campus, the PDC is administratively housed under the College of Health and Urban Affairs, School of Social Work. The center is staffed by a credentialed, experienced group of instructors who provide field-based training to child protection workers in a catchment area that extends from Vero Beach to Key West. In addition to providing the classroom training and testing, these instructors conduct ongoing assessment of trainees through observation and consultation on actual casework situations to achieve the mission of the PDC which is to provide child protection professionals with the knowledge, skills and abilities needed to make decisions that provide Florida's children with safe and permanent homes. Debra Danker-Sandler, Director, email: danker@fiu.edu; or website: www.fiu.edu/-pdc.

**Hemispheric Center for Environmental Technology (HCET)**

In 1995, in partnership with the U.S. Department of Energy's Office of Science and Technology, FIU established the Hemispheric Center for Environmental Technology (HCET). HCET advances the development, utilization, and deployment of cost-effective environmental technologies. The driving goals of this venture are to research, develop, demonstrate, test, and evaluate environmental technologies and to form partnerships with governments and industries throughout the Western Hemisphere in order to disseminate, market, and transfer these technologies. Today, HCET is an example of a growing partnership among academia, government agencies, and industrial and international organizations in which university resources and capabilities are applied to the resolution of scientific, technical, and management issues and problems.

HCET's R&D activities are driven primarily by the scientific and technological challenges arising from three areas: environment, energy, and information. Every year, many graduate students earn their masters and doctoral degrees through their research at HCET. HCET's major research areas include:

- Modeling, simulation, and visualization
- Thermal and fluids engineering
- Combustion
- Fuel cells
- Energy science: fossil, renewable energy efficiency
- Waste processing, characterization, and transport
- Soil and groundwater
- Decontamination and decommissioning
- Robotics and sensors

Through FIU's international outreach program, HCET is able to provide assistance to academic, industrial, and governmental institutions throughout Latin America and the Caribbean.

HCET serves as a technology broker for bringing together private industry, governmental agencies, foreign entities, and academic institutions to build partnerships.

HCET's laboratories, demonstration sites, and offices are part of FIU's Center for Engineering and Applied Sciences. Outfitted with state-of-the-art equipment, HCET provides high-quality and cost-effective technical solutions to governmental and commercial clients through basic and applied scientific research. These laboratories and facilities include:

- Supercomputing Facilities
- Waste Processing Research Laboratory
- Laser Doppler Anemometry Laboratory
- Solidification Laboratory
- Multiphase Flow Laboratory
- Radiological Laboratory
- Combustion Laboratory
- Analytical Chemistry Laboratory
- Kinetics and Control Laboratory
- Sensors and Robotics Laboratory
- Deactivation and Decommissioning Laboratory
- Fuel Cell Laboratory
- Fabrication Shop
- Multifunctional Facilities (High Bay)
- Technology Assessment Site

To better serve its clients, HCET maintains offices in San Antonio, Texas; Tampa, Florida; Oak Ridge, Tennessee; and Cincinnati, Ohio.

**International Forensic Research Institute (IFRI)**

The International Forensic Research Institute (IFRI) was established at Florida International University (FIU) by the State University System (SUS) of Florida Board of Regents (BOR) in 1997 to help serve law enforcement efforts in the application of scientific principles to the administration of justice. Dozens of IFRI-affiliated faculty conduct forensic research in various departments including Biology, Chemistry, Criminal Justice, Earth Sciences, Physics, Political Science and Psychology. Additionally, IFRI has affiliations with research scientists from some of the world's foremost forensic science laboratories. Based in the chemistry department, the institute...
administers an undergraduate Forensic Science Certificate program and the first SUS BOR approved Master of Science in Forensic Science, an interdisciplinary graduate program with non-traditional course delivery available.

Research and training areas include arson/explosive residue analysis, detector dogs, driving impairment, environmental forensics, forensic DNA analysis/interpretation, forensic facial approximation, forensic toxicology, trace elemental analysis of forensic samples, courtroom persuasion, eyewitness indentifications and recall, eyewitness testimony of children, jury selection and decision making, patterns in narcotics trafficking and substance abuse. Students working with the institute have access to state-of-the-art facilities and instrumentation including HPLC/MS, ICP/MS, pyrolysis GC/MS, SPME/GC/MS/MS, GRIM II, SFEs, CZE, environmental SEM, etc. For additional information, please write to IFRI, Department of Chemistry, FIU, University Park, Miami, Florida 33199, (305)-348-6211 or visit our web site at www.fiu.edu/~ifri

International Hurricane Center

The International Hurricane Center (IHC) is a Type I research center serving the State University System of Florida. Type I status was approved by the Board of Regents on March 15, 1996, and makes the IHC Florida’s official hurricane research center for the ten universities comprising the state system. The IHC is also designated as a formal liaison for NOAA’s Tropical Prediction Center (also known as the National Hurricane Center) located on the University Park campus.

The IHC promotes a multidisciplinary research mission focused on mitigation of hurricane damage to people, the economy, and the built and natural environments. The IHC’s large-scale research agenda includes topics in diverse disciplines such as engineering, architecture, sociology, earth sciences, construction management, urban planning, economics, finance, insurance, and environmental science among others. Research opportunities for interested graduate level students exist in a number of the areas previously cited.

For more information, contact the IHC at (305) 348-1607 or visit our website at http://www.ihc.fiu.edu.

The International Media Center

The International Media Center is the non-for-profit research and training arm of the School of Journalism and Mass Communication (SJMC) at Florida International University. The IMC was authorized by the Florida Board of Regents to encourage and assist SJMC faculty in research and training projects; administer SJMC grants and contracts, and to encourage student and faculty participation in international efforts to strengthen the free press in the democracies of the modern world.

The IMC operates several international programs designed to strengthen professional communication media in Latin America and elsewhere. The IMC provides mid-career training for journalists, provides technical assistance for public sector entities to improve media relations and public awareness programs, actively promotes press freedom issues worldwide and helps journalists and other combat corruption in the public and private sectors.

The Latin American Journalism Program, a $13.5 million, 10-year project funded by the US Agency for International Development to strengthen journalism in 11 Latin American countries, was managed by IMC personnel. More than 6,500 journalists received short-term or long-term training under the LAJP. The program had a major impact on the quality of journalism in Central America and has been credited with playing a substantial role in strengthening journalist ethics throughout the region. IMC serves as consultant for the Centro Latinamericano de Periodismo, or Latin American Journalism Center, in Panama City, Panama, which IMC managers founded in 1995. The center has become self-sufficient and offers training courses for print and broadcast media on a regular schedule. It also organizes the Latin American Journalism Congress every two years to bring together media owners, journalists and journalism educators for discussions about the future of the free press in Latin America.

Recent projects of the IMC include anticorruption training for journalists in Tanzania, Panama, Guatemala and other Latin American countries. These workshops focus on giving journalists the tools they need to understand the dangers of corruption, investigate corruption in the public and private sectors, and to participate in public awareness programs. Center consultants have participated in efforts to increase public awareness recently in Armenia, Venezuela, Tanzania, Bolivia and El Salvador.

The IMC is training Paraguayan journalists on how to better report on and write about the country’s judicial reforms, how to conduct better investigative reporting and how to better alert the Paraguayan public to the dangers of corruption.

Purpose of the IMC

The purpose of the IMC is to strengthen the free flow of information through education, training and research. Most of the IMC activities are focused on Latin America because of the IMC location in Miami. But the IMC is capable of working in any part of the world. All of the program’s training, education, research and technical assistance activities are based on the professional standards of the free press operating separately from and independent of the state in the democracies of the modern world. The IMC conducts programs aimed at strengthening the professionalism of journalism, public relations and public information services in Latin America and elsewhere. Charles H. Green is the director of the IMC. He reports to J. Arthur Heise, dean of the School of Journalism and Mass Communication. The IMC staff has many years of professional media experience and a decade of experience in providing top-quality adult education and in managing multi-million dollar projects. Our in-house expertise is supplemented by an impressive stable of academics and professionals ready to undertake assignments in a variety of languages.

Advisory Board

While the IMC does not have a regular board of directors it does have a special advisory board appointed by the dean of the School of Journalism and Mass Communication. The purpose of this board is to advise the dean and the IMC director on center activities. Members of the advisory board are Patricia Rose, chair of the Department of Public Relations and Advertising, Michael McQueen, chair of the Department of Journalism and Broadcasting, Kevin Hall, director of the SJMC Writing Project and professor of journalism, and Bill Adams, professor of public relations.
Notable Activities
The Latin American Journalism Program, which operated from 1988 until 1998, offered more than 550 seminars, workshops and other training activities for more than 6,500 participants with more than 60,000 training days. The program encouraged journalists, journalism educators and media owners to make a critical examination of the role of a free and independent press. The IMC publishes the widest-read journalism review in the Spanish language, *Pulso del periodismo*. *Pulso* carries articles on journalists and news media. The electronic edition of *Pulso del periodismo* can be found at [http://www.pulso.org/](http://www.pulso.org/). The electronic magazine, funded in part by a grant from the McCormick Tribune Foundation of Chicago, keeps Spanish-speaking journalists abreast of freedom of the press issues with stories written by the journalists themselves.

Institute for Judaic Studies and Near Eastern Studies

The Institute for Judaic and Near Eastern Studies is housed in the Center for Transnational and Comparative Studies (TCS). It educates the students and faculty at FIU and the general south Florida community about Jewish and Near Eastern history, culture, religion, literature, political science, and international relations. The Institute offers academically rigorous courses, lectures, and other programs that range across the disciplines. Courses and lectures are offered at FIU’s two main campuses, at the University’s Wolfsonian Museum on Miami Beach, and at other venues in south Florida. The Institute features a specialized program in Sephardic Studies and offers a Certificate in Judaic Studies to currently enrolled FIU students. It sponsors an annual lecture series, bringing to south Florida leading scholars in Jewish and Near Eastern Studies.

Center for Labor Research and Studies

The Center for Labor Research and Studies, established in 1971 is the only labor center in Florida and one of the most dynamic in the nation. It serves students, faculty and administrators throughout the State University System as well as labor, business, community organizations, academics, policy makers, and journalists, nationally and internationally, through a series of diverse activities.

Since it was founded, the CLR&S has become recognized for its innovative national and international non-credit education programs for labor and management participants including labor relations, dispute resolution, labor history, dynamics of worker participation, labor history and international labor issues.

Accredited through the United Association of Labor Education (UALE), the Center is one of 51 accredited labor centers in the United States. Its broad mission is to provide services to workers and their organizations. This broad mission has three specific objectives: 1) provide comprehensive, statewide labor education service; 2) provide programs designed to support faculty research in labor relations, the changing nature of work, and labor education issues; and 3) offer a multi-disciplinary credit curriculum in labor studies and conflict resolution at the University.

The credit program, offered through the College of Arts and Sciences, includes a Bachelor’s Degree in Liberal Studies with a Concentration in Labor Studies and two related undergraduate certificate programs. The Center also offers a multi-disciplinary graduate Professional Certificate in Conflict Resolution and Consensus Building.

The Center’s non-credit classes for Florida’s labor management practitioners include open enrollment single courses, individualized courses for particular unions, as well as certificate programs.

As a Type 1 Center, the CLRS has major responsibility at the University for research and curriculum development on labor relations and the changing nature of work in Florida. The Center houses various projects which serve to carry out its research and training function including non-credit programs and conferences, applied and theoretical research programs including the Immigration and Ethnicity Institute.

The CLRS is located in the Labor Center building at the University Park Campus, (305) 348-2371, Fax: (305) 348-2241; www.fiu.edu/~clrs/.

Latin American and Caribbean Center

The Latin American and Caribbean Center (LACC) promotes advanced education and research on Latin America and the Caribbean, a region of intense interest to the United States. It offers undergraduate and graduate certificate programs to both degree and non-degree seeking students, combines research in the social sciences and the humanities, promotes graduate and undergraduate instruction, and offers publications and public education activities that address the full range of issues affecting hemispheric relations.

LACC also offers a Master of Arts in Latin American and Caribbean Studies. This multidisciplinary master’s program builds on FIU’s strong and growing resources in area studies, most notably the more than 140 faculty members who are recognized nationally and internationally for their expertise on the region. LACC faculty span many disciplines, in the social and natural sciences, business and the humanities. For more information about the M.A. in Latin American and Caribbean Studies see the College of Arts and Sciences section in the Graduate Catalog.

Since it was founded in 1979, LACC has become one of the country’s leading programs in Latin American and Caribbean studies. Through special seminars, colloquia, and other presentations sponsored by LACC, faculty and students have access to visiting scholars and other professionals with expertise on Latin American and Caribbean issues. Externally funded research programs support a continual flow of visiting Latin Americanists and Caribbeanists to the University. Through the external grants it receives, LACC contributes to the University’s efforts to strengthen its Latin American and Caribbean library holdings. LACC receives funding from state and federal sources as well as private foundations, among them the Andrew Mellon, Tinker, Rockefeller, and Ford Foundations.

LACC itself houses several specialized institutes. These include the Cuban Research Institute (CRI), the only academic center in the United States devoted exclusively to the study of Cuba and Cuban-Americans. CRI offers a Cuban and Cuban-American studies certificate program for undergraduates that builds on the strength of institutional and community resources at FIU and the Greater Miami area. Also at LACC are the Intercultural Dance and Music Institute (INDAMI), which organizes regular
seminars and performances by artists and scholars of the arts; the Institute for International Professional Services (IPS), which studies and promotes the role of services in the Florida economy; and a newly created Colombian Studies Institute.

In June 1995, the Florida Legislature created the Summit of the Americas Center (SOAC) to research, analyze, and monitor the accords of the Summit of the Americas, with special attention to Florida's role in hemispheric trade and commerce. Located within LACC, SOAC is a cooperative venture among LACC, the University of Florida's Center for Latin American Studies, and the University of Miami's North-South Center.

The State legislature also created the Florida Caribbean Institute (FCI) and the Florida-Mexico Institute (FMI) to improve Florida's cultural, commercial, and educational ties with strategic regions. Both FMI and FCI administer competitive scholarship programs which allow students from Mexico and the Caribbean to attend any institution in the State University System or the Community College System at the in-state rate.

LACC regularly places students in foreign study programs and local internships. More information is available in DM 353 University Park, (305) 348-2894 or by visiting the LACC website at http://lacc.fiu.edu

Lehman Center for Transportation Research (LCTR)
The Lehman Center for Transportation Research (LCTR) at Florida International University was established in 1993 in honor of Congressman Bill Lehman and his tireless efforts to make South Florida a better place for all of us. The center's vision is to become a strong 'state-of-the-art' transportation research and training facility. LCTR is committed to serve and benefit our society by conducting research to improve mobility, hence the quality of life issues, develop partnerships in the transportation industry, and educate a multidisciplinary workforce to plan, manage and implement transportation systems.

Faculty, staff and students at LCTR are involved in research related to the planning design, and operation of transportation systems; public policy; air pollution; and the application of geographic information systems and other advanced technologies such as artificial neural networks and scientific visualization in transportation. Future plans include networking with the public and private industry to collaborate on transportation related research. In addition, applied research will be conducted on, but not limited to intelligent vehicle and highway systems.

Center for Management Development/Office of Professional Education
The Center for Management Development/Office of Professional Education, a part of Florida International University's College of Business Administration, was established in 1979 to bring the College's resources and expertise to both local and international business communities. The Center's overriding goal is to increase the competitiveness of the organizations it serves.

The Center offers Certificate Programs in Human Resource Administration, Training and Human Resource Development, and Managing Quality Health Care Systems. The Center also manages the Graduate Diploma Series program, which provides a non-credit Certificate to graduates in International Business and International Marketing. The Center offers professional development seminars on topics like leadership and conflict resolution. It also provides contract training and customized, in-house training programs tailored to individual organizations' needs.

In addition, the Center serves as clearinghouse and referral center for matching the College's resources to the particular management and human resources issues facing businesses and other organizations in the community.

The Center for Management Development and Executive Education is located in the Ryder Business Building, University Park Campus (305) 348-4237.

Small Business Development Center
The Small Business Development Center in Florida International University's College of Business Administration exists to provide comprehensive management and technical assistance to small businesses in both local and international communities. It also links governmental resources—local, state, federal—with those of the University and the private sector in order to counsel and train small businesses in addressing start-up, organizational, financial, marketing, technical, and other problems they may face.

The Small Business Development Center provides consulting services, business management information, and functional services like performing financial analyses, management audits, and feasibility studies. It also offers workshops and seminars on topics related to small business development.

The Center also has developed and provides specific expertise in the areas of international trade, energy, the bidding process, and Hispanic enterprises.

The Center, which is funded by the Florida State University System and the U.S. Small Business Administration, is operated from its offices in the EAS Building near the University Park Campus, (305) 348-2272. It also has offices in Dania, Florida, and on the Biscayne Bay Campus.

Manufacturing Research Center (MRC)
Based on the principles of concurrent engineering, the Manufacturing Research Center (MRC) is divided into two major labs and built to provide a seamless integration of computerized engineering tools for design (CAD), manufacturing (CAM), inspection (CM), and rapid prototyping (RP) for both mechanical and electronic product design and fabrication. With input from the MRC's Industrial Advisory Board, a broad range of software and hardware systems were carefully selected as offering the best tools to serve the industry. Silicon Graphics workstations are used as the backbone of the system, on which software and hardware systems communicate and share information within the MRC network and are connected to external systems through the internet. The MRC has two main laboratories: the Rapid Product Realization Laboratory and the Process Characterization Laboratory.

The Rapid Product Realization Laboratory consists of a design front end, a rapid prototyping center for both mechanical and electrical components, computer-driven manufacturing and a coordinate measuring machine to verify
the components and feedback into the design process. The design center consists of seven SGI workstations and a server, with backup and additional computer support by the College’s Engineering Information Center (EIC), having been designated a Silicon Works Solution Center by SGI. The design center allows design intent modeled in Pro/Engineer and analyzed with finite element analysis packages.

The Rapid Prototyping Center currently consists of a 3-D Systems 250-40 laser stereolithography system, using laser cross-linked polymer for part realization, a Stratasys fused object modeler using polymer extrusion, and a Helisys Laser-Cutting layer object (paper, ceramic tape) cut-and-stack prototype system. Mechanical parts are fabricated with a Fadal VMC-15 Vertical Machining Center, a CNC turning center, a Hurco MK-2 EDM machine and a Handsvedt DS-2 traveling wire EDM. Production capabilities are enhanced by an Arburg 250-75 injection molding machine. A Brown & Sharpe coordinate measurement machine provides dimensioning analysis and geometry verification. It closes the loop from product design to prototyping and part manufacturing, allowing the evaluation and development of expert manufacturing systems. The Electronic Manufacturing Facility consists of an OZO automatic manufacturing robot that allows rapid manufacturing of printed circuit boards and high performance ceramic-based packages. The system also allows direct writing with both UV and optical photoplotters.

The Processes Characterization Laboratory. The manufacturing process laboratory is initially focused on injection molding processes, (including metal) with a research thrust developing in the area of rapid injection molding, using mold inserts fabricated by rapid prototyping processes. Additionally, investment casting processes with a focus on rapid prototyping, will be developed. The laboratory includes an Auberg injection molder, programmable process development furnaces (hydrogen, vacuum, inert air) up 1600°C, and a 190-ton press. The materials characterization lab consists of a field emission scanning electron microscope, a standard SEM (both with light element non-dispersive X-ray spectroscopy), a 200 keV transmission electron microscope with sample preparation capabilities (ion mill, dimpler, lapping fixtures), an X-ray diffractometer with 1600°C furnace, thermal analysis (DSC, TGA, DMA, thermal expansion), mechanical testing (uniaxial and cyclic loading, creep), and sample preparation and inspection capabilities. Training: The MRC and EIC regularly schedule training courses in Pro/E, visual C, and other industry-specific software at substantial discounts to our members and with flexible schedules. Course instructors typically come from industry, bringing real-life hands-on experiences to the class.

The MRC and Industry: The nearly 7000 manufacturers in the State of Florida, representing over 40%, reside in the tri-county area served by FIU, with the largest concentration in Miami-Dade county. However, without strong participation in the upgrading of manufacturing practices, many current manufacturers will become obsolete in the changing realities of the global economy of the 21st century. The primary objective of the MRC is to prepare manufacturing engineers for an era where enterprises will be mostly information-based and international in nature. Numerous new and more effective engineering data management tools, product development software, electronic cataloging and electronic commerce are rapidly emerging, speeding up the advent of “manufacturing over the Internet”.

Membership: The MRC provides the access for industry to utilize the capabilities and resources of the College of Engineering and its outstanding faculty. The cost of membership is a donation to the FIU Foundation, and therefore tax deductible. For more information, contact http://www.eng.fiu.edu/MRC or Dr. W. Kinzy Jones at (305) 348-2345 or Dr. Chin-Sheng Chen at (305) 348-3753.

Metropolitan Center

The Metropolitan Center (MC) exemplifies the urban theme in FIU’s Strategic Plan “Reaching for the Top”: service, first of all, to the people of Southeast Florida through research, teaching, and service to better understand and ameliorate pressing urban problems. The overall goal of the MC is to provide the best information available to benefit local decision makers in a shared quest to preserve and improve our social, economic, built and natural environment, to produce ‘livable communities’ and the highest attainable quality of life. To achieve these aims, the MC organizes university resources – faculty and students, knowledge bases, expertise, and technology – recruits external expertise, and confers with decision makers from government, community organizations, and the business sector to examine issues of critical concern to South Florida. It conducts applied urban research and provides technical assistance and training that support community-defined initiatives and priorities. The Center’s projects can be single-classified as Economic and Community Development, Databases for Planning and Evaluation, Human Services, Environment, Justice Systems, Health, and Public Administration. In practice, many projects can be multiple-classified and require multi-disciplinary perspectives and methodologies.

The MC was created in 1998 under FIU’s Quality Improvement Initiative. The MC subsumes FIU’s Institute of Government (IOG), and the FAU-FIU Joint Center for Environmental and Urban Problems (IC), a HUD-Funded Community Outreach Partnership Center (COPC), and manages the Dewey Knight Center for Public Service. It is administratively within the College of Health and Urban Affairs (CHUA), but initiates collaborations with other colleges, schools, departments, programs, centers and institutes in pursuit of its objectives.

The Metropolitan Center is located in downtown Miami at 150 SE 2nd Avenue, Suite 1201, for more information call (305) 349-1251 or fax (305) 349-1271, or visit our website www.fiu.edu/~metcen. Its Director is Jim Rivers, Ph.D., riversj@fiu.edu.

National Policy and Resource Center on Nutrition and Aging

Vision: reduce nutrition risk and food insecurity and promote good nutritional practices among older adults.

Mission: work with the Federal Administration on Aging (AoA) and the USDA to provide national leadership in Aging, Nutrition, Extension Networks; place food and nutrition services in the mainstream of home and community based social, health and long-term care delivery systems serving older individuals.
The Center helps Elderly Nutrition Programs, the cornerstone of the Older Americans Act, improve their food and nutrition services, use resources more effectively, and adapt to changes in demographics, health care and public policy. The Center assists the Aging Network that includes more than 2200 local nutrition projects serving congregate and home delivered meals, 57 state and territory agencies on aging, 227+ tribal organizations and 650+ area agencies on aging. The Center provides technical training and conducts policy analysis and best practices research. With the rapidly increasing numbers of frail, home-bound older adults, the Center is dedicated to (1) risk-based screening to identify the most nutritionally needy, (2) expansion of food and nutrition services in health, extension and social service programs, and (3) integrating food and nutrition services into interdisciplinary care management to improve quality of life, promote independence, and decrease early nursing home admissions and hospitalizations. A USDA-sponsored project will strengthen outreach in rural communities to reduce critical service gaps for at-risk older adults.

Public/private partnerships enable the Center to work with programs, professionals, older individuals and caregivers to strengthen programmatic and personal commitments to food and nutrition as foundations for good health.

The Center can be reached at (305) 348-1517, fax (305) 348-1518, email: nutrelrd@fiu.edu or online at http://www.fiu.edu/~nutrelrd. Nancy S. Wellman, PhD, RD, FADA, Director; Dian O. Weddle, PhD, RD, FADA, Co-Director; Lester Rosenzweig, MS, RD, Associate Director.

Institute for Public Management and Community Service

The Institute for Public Management and Community Service was re-established by the College of Urban and Public Affairs at Florida International University in 1994. Since then, the Institute has had extensive involvement in governance reform projects in North, Central and South America as well as Africa, Eastern Europe and Asia. These projects have involved the Institute’s Director, Assistant Director and other staff in working with many national legislative bodies, several national chief executives and numerous government ministers. Institute projects have focused on issues of executive-legislative relations, legislative development, decentralization, civil service reform, the strengthening of local and other sub-national government and the promotion of citizen participation and governmental and political accountability. In addition to its extensive technical assistance and consulting activities, the Institute has carried out a wide variety of research and training activities, both within and outside of the United States.

In its work in Paraguay, Argentina, Chile and Peru, Institute staff have worked very closely with the leadership of the government of Miami-Dade County in carrying out a wide variety of local government technical assistance and democratic development activities. The Institute continues its work with Miami-Dade County through its organization for the County each year of the annual Hemispheric Mayors Conference, which typically brings together 550 municipal leaders from throughout Latin America, the Caribbean and North America. This annual gathering has come to be recognized throughout the Hemisphere as the principal recurring meeting on issues of local governance in Latin America. In addition, the Institute has organized numerous conferences and seminars throughout the Hemisphere.

The Director of the Institute, Dr. Allan Rosenbaum, has worked in local, state and national government in the United States and has consulted extensively both within the United States and in most parts of the world and for the United Nations. Mrs. Cristina Rodriguez-Acosta, the Institute Deputy Director has had considerable experience in various parts of Latin America and oversaw the Institute’s extensive activities in Paraguay.

Allan Rosenbaum, (305) 348-1271; rosenbau@fiu.edu.

Institute for Public Opinion Research

The Institute for Public Opinion Research (IPOR), is a research arm of the School of Journalism and Mass Communication at Florida International University. IPOR was founded in 1983 to provide decision makers with reliable and timely information on how a scientifically selected sample of the public stands on important issues, and to enhance the dialogue on major issues among decision makers, the media, and the people of Florida. IPOR provides professional services in all aspects of survey research including study and sample design, questionnaire development, interviewing, data entry, data analysis, and report writing. IPOR is a member of national Network of State Polls (NNSP).

IPOR has conducted hundreds of surveys for FIU researchers, government agencies, and the private sector. These projects include thirteen years of the FIU/Florida Poll, one of the most comprehensive public opinion surveys conducted in the country. The FIU/Florida Poll asks Floridians how they feel about the important issues facing them -- environment, economy, crime, education, transportation, health, taxes, politics, etc., and tracks these questions year after year to determine whether and how views are changing.

IPOR is constantly working with new technology and data sources to develop and test new sampling and interviewing methodologies. From the use of qualitative techniques to make quantitative surveys more efficient, enjoyable and valid for respondents to geographic information system analysis in sample design and data analysis, IPOR provides state-of-the-art survey methodology to researchers.

IPOR conducts its telephone polls from its computer-assisted telephone interview laboratory at the Biscayne Bay Campus of FIU. All IPOR project personnel are well-paid professionals who are specially trained for each project and who are monitored for adherence to IPOR’s procedures and guidelines.

IPOR is located in HM, Room 246. For more information call (305) 919-5778; fax (305) 919-5242, or send email to gladwin@fiu.edu or visit our website at http://www.fiu.edu/orgs/ipor.

Institute for Public Policy and Citizenship Studies

The Institute for Public Policy and Citizenship Studies was founded in 1985 to offer students, faculty, and the community alternative learning opportunities in public policy and citizenship development. Four key objectives have guided the Institute’s programs:

1. To provide non-traditional educational opportunities to the student body
on the responsibilities and opportunities of citizenship.

2. To assist students and faculty in understanding the impact that public policy has on their daily lives and in their career pursuits.

3. To promote interdisciplinary research efforts among faculty on local and national policy matters.

4. To encourage joint university and community efforts on local policy issues.

The Institute sponsors the Student Honors Mentor Program, a semester-long opportunity for students to meet and interact with peers and faculty members from other academic disciplines. The Mentor Program encourages participants to examine a public policy issue in a small group setting through discussions, research, or innovative projects. In providing an alternative mode of learning, the Institute hopes to give students practical experience in community decision-making and problem-solving.

The Institute also sponsors and supports the annual Intergenerational Public Policy Summer Institute which teams elder civic activists with high school students, many of whom are at-risk.


The Institute also works in cooperation with other FIU centers, including the Women’s Studies Center, The Center on Aging, The Labor Center, and The Latin American Caribbean Center.

In addition, the Institute sponsors conferences and events focusing on key policy issues that are salient within our local community. Nationally known speakers and University faculty are invited to present their research findings and perspectives on a variety of issues ranging from citizenship education in Miami-Dade County to the ethical implications of an aging society to the impact of government regulations on the fishing industry. The conferences are designed to offer the public and university community additional resources in understanding the policy problems that we, as a community, face on a daily basis.

The Institute is located in LC 220, University Park, (305) 348-2977.

Ryder Center for Supply Chain Systems

The Ryder Center for Supply Chain Systems, housed in Florida International University’s College of Business Administration, exists to develop and promote academic, research, and continuing education programs in the field of supply chain systems.

The Center sponsors and coordinates seminars, conferences, and outreach services for academic and professional publics.

The Center is located in the Ryder Business Building, University Park Campus, (305) 348-3156.

Center on Aging

The Center on Aging offers a multidisciplinary program in gerontology with a unique public sector focus. It is the mission of the Center to serve as a focal point for applied public policy and practice research; to design and implement comprehensive gerontological education and training programs for students, professionals and older learners; and to demonstrate new and innovative concepts to serve older persons. The Center seeks to achieve its goals through a wide variety of educational activities designed to further the pursuit of knowledge and understanding about aging in today’s society. This includes a focus upon evaluation of public policy as it affects older adults in Florida, the United States, and throughout Latin America and the Caribbean.

Objectives: The Center supports, sponsors, conducts, and participates in a wide range of activities aimed at improving the quality of life for older adults. Pursuant to its mandate for education and training, research, and community service, the Center is engaged in:

1. Development of gerontology education across disciplines throughout the University community.
2. Expanded opportunities for training and professional development of persons working with or planning to work with older people.
3. Research with special emphasis on public policy and practice in the areas of healthy aging, new roles and opportunities, long term care, and justice systems.
4. Collaboration with public agencies and community organizations aimed at improving the effectiveness of programs for older adults.

The Center consists of two components:

Research: Focus on applied policy and practice research, as well as promotion of research involving faculty from a variety of disciplines within the University. There is an emphasis on potential applications of research findings by policy makers, health and social services practitioners, and the private sector.

Education and Training: Coordination of credit and non-credit certificate programs for undergraduate and graduate students and for practitioners in the field of aging. The Center delivers training seminars and workshops both at the University and on line.

The Institute for Lifelong Learning, a continuing education program, is now being offered through Continuing Education and Professional Studies at (305) 919-5000.

The Center is located in ACI 234, Biscayne Bay Campus, (305) 919-5550, rothman@fiu.edu.

Women’s Studies Center

The Women’s Studies Center, established in 1982, is a university program with a multipurpose mission that focuses on the development and coordination of academic women’s studies courses and the support of research on gender. In addition, the center coordinates extracurricular programming on gender issues for faculty, staff, students, and the general community.

The center offers a Bachelor of Arts degree in women’s studies, a certificate program, and courses as electives in most disciplines. The courses in women’s studies provide an opportunity for the study of the historical, political, economic, literary, social, and cultural roles of women and of the function of gender in diverse societies and cultures. The courses are coordinated through various University departments, and are open to women and men alike, as a balance to traditional education. In Women’s Studies classes, students explore the range of women’s experiences, from their struggle for equality to their contributions in politics, history, literature, psychology, and other subjects. Through this rich discipline, sexual bias throughout society—in the workplace, in school,
and at home—is analyzed through historical study and new theory. Equal importance is given to the commitment to discover and teach ideas and knowledge about global concerns, nationality, race, ethnicity, class, age, and sexual identity. The program is directed toward specialists and generalists alike. Students should refer to the Arts and Sciences women's studies section for degree and certificate details.

The center fosters faculty research in Women's Studies through various means including a publications series; research seminars; lecture series; and conferences; and lecture series, such as the Women of Distinction series. In addition to coordinating academic courses and research in Women's Studies, the program provides a place and opportunity for extracurricular activity. The center offers assistance on issues of inequality and access to information on gender issues and concerns. The resources of the center are used by the academic and general community, and everyone is welcome to visit or inquire about our services. Women's Studies events are posted on the web at: www.fiu.edu/wstudies.

The center is located in DM 212, University Park, (305) 348-2408.

Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by fourteen participating private institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and assigns the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Description of the content of courses are referred to as "course equivalency profiles."

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between the participating institutions that offer the course, with a few exceptions. (Exceptions are listed below).

For example, a survey course in social problems is offered by 31 different postsecondary institutions. Each institution uses "SYG-010" to identify its social problems course. The level code is the first digit and represents that year in which students normally take this course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-Level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is offered by the receiving institution and is identified by the same prefix and last three digits at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 1010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 1010 at the state university if the student transfers. The student cannot be required to take SYG 1010 again since SYG 1010 is equivalent to SYG 1010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

Sometimes, as in Chemistry, a sequence of one or more courses must be completed at the same institution in order for the courses to be transferable to another institution, even if the course prefix and numbers are the same. This information is contained in the individual SCNS course equivalency profiles for each course in the sequence.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix used to identify the course.

Authority for Acceptance of Equivalent Courses

State Board of Education Rule 6A-10.024(17). Florida Administrative Code, reads:

When a student transfers among institutions that participate in the common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces to be equivalent to courses offered at the receiving institution and are entered in the course numbering system. Credit so awarded can be used by transfer students to satisfy requirements in these institutions on the same basis as native students.

Exceptions to the General Rule for Equivalency

The following courses are exceptions to the general rule for course equivalencies and may not be transferable. Transferability is at the discretion of the receiving institution:

1. Courses in the _990_–_999 series
2. Internships, practical, clinical experiences, and study abroad courses
Southeast Environmental Research Center

The Southeast Environmental Research Center (SERC) is composed of people from a variety of scientific disciplines who work together on environmental research projects designed to promote understanding, protection and restoration of the water, and natural resources of the Southeastern United States and the Caribbean. Special emphasis is placed on work in Biscayne, Big Cypress, Everglades and Dry Tortugas National Parks; the Everglades Water Conservation Areas; the Florida Keys National Marine Sanctuary and other freshwater and coastal ecosystems.

The success of many of these efforts relies heavily on the contributions of graduate and undergraduate students who work closely with SERC faculty researchers.

Although SERC is not an academic program, providing students with educational opportunities through hands-on experience in real-world situations is one of its philosophical cornerstones. Students are an integral part of each research project, and their work, both in the field and in the laboratory, not only provides them with valuable experience and knowledge, but contributes greatly to the SERC project. Many of the graduate students employed by SERC utilize their work as a springboard for thesis projects and dissertation research.

Almost all of SERC’s research projects support student research, in areas as varied as ecology, hydrology, microbiology, analytical chemistry and geochemistry, among others. 

Student researchers have unlimited access to SERC laboratories, instruments, and equipment, as well as the Center’s boats and vehicles when necessary for fieldwork.

Students gain entry into SERC through its faculty who either hold positions jointly or are otherwise affiliated with one of the university’s academic departments. Through these affiliations, students who have been accepted into one of the affiliated academic departments and who are working towards a specific undergraduate or graduate degree, can perform research activities in SERC under the supervision of a SERC faculty member. In particular, SERC faculty have a strong interaction with, or are part of, the faculty of the Departments of Biological Sciences, Chemistry, Environmental Studies and Earth Sciences, with connections to Civil and Environmental Engineering. The interdisciplinary research approach in SERC presents the students with a wide variety of opportunities, resulting in excellent professional training. Specific areas include, but are not limited to, aquatic and terrestrial ecology, biogeochemistry, microbiology, geochemistry, and environmental chemistry, stable isotope geochemistry, hydrology, ecotoxicology, and soil sciences.

For more detailed information, please visit our web site at http://serc.fiu.edu. The SERC administrative offices are located in OE 148, University Park Campus (305) 348-3095.

Transnational and Comparative Studies (TCS)

Ralph S. Clem, Director
Steven Heine, Associate Director

The Center for Transnational and Comparative Studies (TCS) at Florida International University was created in response to the increasing importance of recent social and economic transformations usually referred to as "globalization." This process involves a relative decline in the influence of states and the commensurate rise in the importance of non-state and transnational actors, as well as very high speed linkages among financial markets, media, and personal communications. Globalization requires us to rethink traditional academic international relations and area studies modalities and to formulate new curricular and scholarly paradigms. TCS is located in University Park, DM 368. Phone: (305) 348-6561; Fax: (305) 348-6562. For more information contact Dr. Ralph Clem at clemr@fiu.edu or Dr. Steven Heine at heines@fiu.edu or tcs@fiu.edu or www.fiu.edu/tcs.

The mission of the Center for Transnational and Comparative Studies is to enhance undergraduate and graduate certificate programs in international studies. TCS houses the Institute for Asian Studies, the Miami European Center, and the Institute for Judaic and Near Eastern Studies. TCS supports the development of more diverse area studies as well as trans-regional programs, and has developed a new multidisciplinary, multidisciplinary certificate program in Transnational and Regional Studies at the graduate level. TCS also coordinates the Global CityScapes Project and the Foreign Policy Lecture Series, among ongoing activities.
Administration and Staff

Dean, Continuing and Professional Studies  David Grossman

Libraries

Executive Director  Laurence A. Miller
Associate Director  Antonie B. Downs
Assistant Director for Collection Development  Tony “Charles” Schwartz
Assistant Director, Reader Services  Sherry Carrillo

Museums, Centers and Institutes

Director, Center for Accounting, Auditing, and Tax Studies  Dana Forgione
Director, Center for Administration of Justice  Luis Salas
Director, Center for Advancement of Engineering and Pre-College Education  Gustavo Roig
Executive Director, Center on Aging  Max B. Rothman
Director, Art Museum  Dahlia Morgan
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Director, Biomedical Engineering Institute  Richard T. Schoephoerster
Director, Center for Advanced Distributed Systems Engineering  Xudong He
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Director, Institute for Children and Families at Risk  Barbara Thomlinson
Director, Cuban Research Institute  Lisandro Perez
Director, High Performance Database Research Center  Naphtali Rishe
Director, Center for Economic Research and Education  Jorge Salazar-Carrillo
Director, International

Institute of Educational Development  Miguel A. Escotet
Director, Florida Center for Analytical Electron Microscopy  Gautam Sen
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Director, Future Aerospace Science and Technology Center  Grover Larkins Jr.
Director, Florida-Caribbean Linkage Institute  Eduardo A. Gamarra
Director, Florida-Mexico Linkage Institute  Eduardo A. Gamarra
Director, International Forensic Research Institute  Kenneth Furton
Director, The Hemispheric Center for Environmental Technology  M. Ali Ebadian
Director, Institute for Hospitality and Tourism Education  Joan S. Remington
Director, International Hurricane Center  Stephen P. Leatherman
Director, FIU Florida Institute of Government  Howard A. Frank
Director, International Media Center  Charles H. Green
Director, Institute for Public Opinion Research  Hugh Gladwin
Director, FAU-FIU Joint Center for Environmental and Urban Problems  Edward P. Murray
Director, Institute for Judaic Studies  Steven Heine
Director, Center for Labor Research and Studies  Guillermo J. Grenier
Director, Latin American and Caribbean Center  Eduardo A. Gamarra
Director, The Life Course and Health Research Center  R. Jay Turner
Director, Ryder System Center for Business Logistics  TBA
Director, Center for Management Development  Grisell Sotolongo
Co-Directors, Manufacturing -
Director, Metropolitan Center  Jim Rivers
Director, National Policy and Resource Center on Nutrition and Aging  Nancy S. Wellman
Director, Professional Development Center  Debra Danker Sandler
Director, Child and Family Psychosocial Research Center  Wendy K. Silverman
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Director, Center for the Study of Matter at Extreme Conditions  Surendra K. Saxena
Director, Summit of the Americas Center  Carl Cira
Director, Center for Transnational and Comparative Studies  Ralph S. Clem
Director, Lehman Transportation Research Center  L. David Shen
Director, Center for Tourism and Technology  Alan J. Parker
Executive Director, Center for Urban Education and Innovation  Lisa Delpit
Director, Wolfsonian Museum  Cathy Leff
Director, Women's Studies Center  Suzanna Rose
Director, Institute for Workforce Competitiveness  Frank T. Hammons
Director, Center for Youth Development  Lilly M. Lathger

Business and Finance
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Associate Vice President, Budget/Planning  Charles Tinder
Assistant Vice President, Facilities Operations  Victor Citarella
Acting Director, Facilities Management  Robert Griffith
Director, Equal Opportunity Programs  Bennie Osborne

Director, Controller's Office  Andy Fornaguera
Director, Environmental Health and Safety  Jennifer Mwaisela
Director, Biscayne Bay Campus Business and Auxiliary Services  Nicholas DiCiaccio
Director, Public Safety  Jesse Campbell
Director, Purchasing Services  Judy Weech
Director, University Business Services  Alexander Zyne
Director, Intercollégiate Athletics  Rick Mello

Biscayne Bay Campus Vice Provost  Raul Moncarz
Assistant to the Vice Provost for Development  Lenore Toby-Simmons

External Relations
Assistant Vice President, External Relations  Dale C. Webb
Assistant Vice President, Marketing  Pauline Winick
Assistant Vice President, Advertising and Brand Management  Terry Witherell
Director, Communications  Todd Ellenberg
Director, Community Relations  Josefina Cagigal
Associate Director, Interactive Design  Eddie Leon

Director, Publications  Bill Stahl

University Advancement
Executive Vice President  Howard R. Lipman
Director, Advancement Services  Zully Dorr
Director, Alumni Relations  (vacant)

Student Affairs
Vice President  Patricia Telles-Irvin
Associate Vice President, Student Affairs  Helen Ellison
Assistant Vice President  John A. Bonanno

College of Continuing and Professional Studies
Dean, College of Continuing and Professional Studies  David Grossman
Director, Distance Learning and Center for Online Teaching  Jeffrey Miller
Director, Kovens Conference Center  Christian Pastner
Governmental Affairs
Vice Provost, Governmental Affairs  Steve Sauls
Director, Governmental Relations  Richard Candia
Washington Representative  Susan Moya

Intercollegiate Athletics and Campus Recreation

Director of Athletics  Rick Mello
Head Baseball Coach  Danny Price
Head Men's Basketball Coach  Donnie Marsh
Head Women's Basketball Coach  Cindy Russo
Head Cross Country/Track Coach  Jessica Carter
Head Women's Golf Coach  David Pezzino
Head Men's Soccer Coach  Karl Kremser
Head Women's Soccer Coach  Everton Edwards
Head Softball Coach  Kim Gwydir
Head Women's Tennis Coach  Ronnie Bernstein
Head Volleyball Coach  Dulcie "Cookie" Stevens
Associate Athletic Director, External Affairs  TBA
Associate Athletic Director, Internal Affairs,  Julie Berg
Assistant Athletic Director, Campus Recreation  Rob Frye
Director of Academic Support Services  Mike Becker
Assistant Athletic Director, Media Relations  Rich Kelch
Assistant Athletic Director, Facilities and Operations  Barton Mondell
Special Course Directory

In addition to the regular courses listed in the catalog*, special courses may be offered using the State Wide Course Numbering System. The following table provides an inventory of course numbers by course type.

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Course Number</th>
<th>Lower</th>
<th>Upper</th>
<th>Post Bacc</th>
<th>Masters</th>
<th>Doctoral</th>
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</thead>
<tbody>
<tr>
<td>Directed Readings/Independent Study</td>
<td>-900 through -909</td>
<td>1--- or 2---</td>
<td>3--- or 4---</td>
<td>5---</td>
<td>6---</td>
<td>7---</td>
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<tr>
<td>Directed Independent Research</td>
<td>-910 through -919</td>
<td>XXXX</td>
<td>3--- or 4---</td>
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<td>6---</td>
<td>7---</td>
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<td>Colloquiums/Symposia/Workshops</td>
<td>-920 through -929</td>
<td>1--- or 2---</td>
<td>3--- or 4---</td>
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<td>Special Topics/Seminars</td>
<td>-930 through -939</td>
<td>1--- or 2---</td>
<td>3--- or 4---</td>
<td>5---</td>
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<tr>
<td>Internships/Practicum/Clinical</td>
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<td>3--- or 4---</td>
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<tr>
<td>Practice/Cooperative Education</td>
<td>-950 through -959</td>
<td>1--- or 2---</td>
<td>3--- or 4---</td>
<td>5---</td>
<td>6---</td>
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<tr>
<td>Activities/Performances/Study Abroad</td>
<td>-960 through -969</td>
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<tr>
<td>Preliminary/Comprehensive Examinations</td>
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<tr>
<td>Dissertation/Dissertation Defense</td>
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<td>1--- or 2---</td>
<td>3--- or 4---</td>
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<td>6---</td>
<td>7---</td>
</tr>
</tbody>
</table>

* FIU is in the process of re-numbering all special courses to comply with the State Wide Course Numbering sequence above. Therefore, some of the special courses listed in the catalog may change.
School of Architecture
School of Architecture

Juan Antonio Bueno, Associate Professor and Dean
David F. Bergwall, Associate Professor and Associate Dean
Alfredo Andía, Assistant Professor
Ted. Baker, Associate Professor
Nathaniel Belcher, Assistant Professor
Jaime Canavés, Associate Professor
Marta Canavés, Assistant Professor, Director, Landscape Architecture
Jason R. Chandler, Visiting Assistant Professor
Dennis Jenkins, Visiting Assistant Professor; Acting Director, Interior Design
Gisela López-Mata, Associate Professor
Iraj E. Majzub, Professor
William G. McMinn, Professor
Marilys R. Nepomechie, Assistant Professor
Esra Ozdenerol, Assistant Professor
Nicólás Quintana, Assistant Professor
Gray Read, Assistant Professor
Camilo Rosales, Associate Professor
Kevin Smith, Assistant Professor
John Stuart, Associate Professor

The School of Architecture is dedicated to advancing the professions of architecture, interior design and landscape architecture. In keeping with the nature of these professions, the programs are taught in an interdisciplinary manner, taking full advantage of the resources and areas of expertise offered by each. The school offers two undergraduate degree programs, a Bachelor of Design in Architectural Studies and a Bachelor of Science in Interior Design, and two graduate degree programs, a Master of Architecture and a Master of Landscape Architecture. (See Graduate Catalog for descriptions).

Students applying to the School should plan for the financial aspects of a design education. This includes the costs of computers, software, travel and field trips, tools and equipment, and building and modeling supplies. Students must also have continuing access to a personal computer through purchase, lease or other arrangements. For further information contact the School.

Community Involvement
The School maintains close ties with architecture, interior design and landscape architecture professionals. Professional advisory boards periodically review the curriculum to maintain program relevance.

Requirements for Admission at the Upper Division or junior year.
Admission is competitive and is not automatically guaranteed to applicants who meet minimum requirements. Admission will be offered on a space available basis to those applicants judged by the Faculty Admissions Committee to have the greatest potential for successful completion of the program.

The School of Architecture maintains a controlled enrollment process to enhance the quality of its programs. Physical space is limited, thus limiting the number of students who may be accepted into the majors.

Upper Division Applicants
Students seeking admission to the Upper Division of programs of the School of Architecture must have a cumulative GPA in all University work of 2.50, have completed a minimum of 60 credits, have completed the CLAST requirement, have completed design studio courses 1 through and including 4 with a grade of 'C' or better, and be judged by the Faculty Admissions Committee to have passed a competitive portfolio review. All applicants will have their credentials reviewed prior to full admission into the program. All applicants for admission to the Upper Division must submit a portfolio for review by the established deadlines. Only grades of 'C' or higher (2.0 on a 4.0 grading scale) are accepted for transfer of applicable prerequisite and core courses from other institutions. No grade below a 'C' will be accepted for graduation in required courses or required electives.

Native Student Applicants
Freshmen wishing to study in the School of Architecture should apply directly to the University. These students will be placed in a pre-architecture program for the Lower Division preparation toward the degree. Students will be monitored for appropriate progress toward the Upper Division. Students not making satisfactory progress will be required to meet with advisors and may be referred to the University advising center to seek a change of intended major. Admission to the pre-major does not guarantee that seats will be available in design studio courses.

Transfer Student Applicants
Transfer applicants seeking admission to the major must meet the criteria set for Upper Division applicants. Students receiving the AA degree from the architectural studies program at Miami-Dade Community College are eligible for consideration for admission to the junior year under an agreed upon protocol.

All transfer applicants who do not meet the criteria for consideration for admission to the Upper Division may be admitted to the pre-major. These applicants cannot be guaranteed admission to the major and must compete for available space based on the criteria set for admission to the Upper Division. Admission to the pre-major does not guarantee that seats will be available in design studio courses.

All prospective students who are considering majors within the School of Architecture must meet the University's general admission requirements. The School's academic programs require specific prerequisite preparation prior to enrollment in certain courses. Students should check individual program requirements and be advised by the School well in advance of entry or transfer into a given program.

Application Deadlines
The School of Architecture considers applications for admission to the Upper Division majors only in the Fall Semester. The deadline for submitting applications and portfolios for review is March 1. Notice of admission actions will normally be mailed by April 15.

Applicants for the pre-major may be considered in Fall, Spring or Summer. Please see application deadlines elsewhere in this catalog.

Foreign Language Requirement
Students must meet the University Foreign Language Requirement. Refer to the appropriate sections in the Catalog's General Information for Admission and Registration and Records.
Student Work
Student work submitted to the School in satisfaction of course or degree requirements, becomes the physical property of the School. However, students retain all rights to the intellectual property of such work. This work may include papers, drawings, models, and other materials. The School assumes no responsibility for safeguarding such materials. At its discretion, the School may retain, return, or discard such materials. The School will not normally discard the materials of current students without giving them a chance to reclaim them.

Students must petition the faculty of the School in writing for any deviation from the established policies. The faculty will decide on the cases on an individual basis.

Bachelor of Design in Architectural Studies
Degree Program Hours: 128
This pre-professional, four-year program provides the student with a solid base of multi-disciplinary knowledge related to the field of architecture in preparation for programs offering Master of Architecture or Master of Landscape Architecture degrees. Focusing on the development of skills and understanding, the program encourages the generation and communication of design ideas that are supported by historical, theoretical, and practical constructs. Divided into Lower and Upper Divisions, the program in Architectural Studies offers students of design courses in basic design principles and advanced design problems with complex architectural programs. The Lower Division classes and studios focus on an in-depth study of conventions in graphic communication, and architectural history and theory. The Upper Division offers the student the opportunity to apply their learning to advanced architectural programs with important practical and theoretical applications.

With alumni and alumnae of the School of Architecture continuing their studies at many of the most competitive graduate programs in the country, the Program remains committed to design excellence by providing its students with the finest undergraduate pre-architectural education in South Florida.

Lower Division Preparation
Students should enroll in lower division design courses the first semester they attend FIU or their progress through the curriculum will be delayed. Seats in lower division design courses are limited and cannot be guaranteed to all students.

Undergraduates admitted with less than 36 semester hours, must meet all the University Lower Division Core requirements.

Lower Division Common Core (34)
- ARC 1131 Graphic Communication 1 3
- ARC 1301 Design 1 4
- ARC 1461 Methods & Materials of Construction 1 3
- ARC 1132 Graphic Communication 2 3
- ARC 1302 Architectural Design 2 4
- ARC 2303 Architectural Design 3 4
- ARC 2304 Architectural Design 4 4
- BSN 2402C Structures 3
- ARC 2701 History of Architecture I 3
- ARC 2702 History of Architecture II 3
- (H) May fulfill humanities requirements. Check with School Advisor.

Graduation Requirements
To graduate, students must complete all Core and General Education requirements for undergraduates as established by the university.

All Upper Division students must complete a minimum of 47 semester hours to graduate, which include the following core requirements or their equivalents:

Upper Division Program (47 minimum)

Major Requirements
- ARC 3243 Design Theories 3
- ARC 3463 Methods and Materials of Construction II 3
- ARC 4058 Computers Applications in Architecture 3
- ARC 4270 Professional Office Practice 3
- ARC 4324 Architectural Design 5 4
- ARC 4335 Architectural Design 6 4
- ARC 4342 Architectural Design 7 4
- ARC 4343 Architectural Design 8 4
- ARC 4553 Structural Design 4
- ARC 4783 History of Architecture 3 3

ARC 4910 Research Methods 3
ARC/LAA History of Theory 3
BCN 4561C Environmental Controls 3
BCN 4564 Environmental Controls in Bldgs. 2 3

Upper Division Electives (9)
Selected with an advisor to meet degree requirements and program objectives

Bachelor of Science in Interior Design
Degree Program Hours: 120
This professional, four-year program is designed to enable graduates to work with other professionals such as architects and engineers in the design of commercial and institutional projects. The program incorporates the recommendations and standards of national and local professional societies and prepares students for work in a design firm or for self-employment at the professional level.

The interdisciplinary program allows students to integrate the technical, managerial, theoretical and design aspects of interior design.

The program has developed a strong relationship with the trade and practicing professionals, as exemplified by the Designers Lecture Series and the annual Festival of the Trees.

Lower Division Preparation
Students should enroll in Lower Division design courses the first semester they attend FIU or their progress through the curriculum will be delayed. Seats in Lower Division design courses are limited and cannot be guaranteed to all students.

Undergraduates admitted with less than 36 semester hours must meet all of the University Lower Division Core Requirements.

Lower Division Common Core (37)
- ARC 1131 Graphic Communication I 3
- ARC 1301 Design 1 4
- ARC 1461 Methods & Materials of Construction I 3
- ARC 1132 Graphic Communication II 3
- ARC 1302 Design 2 4
- ARC 2701 History of Architecture 1 (H) 3
- ARC 2303 Architectural Design 3 4
- CGS 2060 Introduction to Microcomputers (M) 3
- IND 2220 Interior Design 4 4
School of Architecture

Graduation Requirements
To graduate, students must complete all Core and General Education requirements for undergraduates as established by the university.

All Upper Division students must complete a minimum of 47 semester hours to graduate, which include the following Core requirements or their equivalent.

Upper Division Program (47 minimum)

ARC 2343 Introduction to Design Theories (H) 3
IND 2315 Interior Design 5 4
IND 2316 Interior Design 6 4
IND 2225 Interior Design 7 4
IND 4441C Furniture Design 3
IND 2260 Interior Design 8 3
IND 4943 Interior Design Research 1
IND 4311 Media & Methods of Presentation 3
IND 4501 Interior Design Practice 3
IND 2423 Sources, Materials & Cost Estimating for Interiors 3
IND 3451 Interior Design Construction Drawing 1 3
IND 3455 Interior Design Construction Drawing 2 4
IND 2430 Lighting Design 3
BCN 4561C Environmental Controls 1 3
ARC 4058 Advanced Computers in Architecture 3

(H) May fulfill humanities requirement (check with School Advisor)

Course Descriptions

Definition of Prefixes
ARC-Architecture; IND-Interior Design; LAA-Landscape Architecture
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

ARC 1001 Introduction to Design (3).
A practical introduction to the professional, technical, and aesthetic aspects of architecture, interior design, landscape architecture, and environmental and urban systems.

ARC 1131 Graphic Communication I (3). An introduction to basic drawing principles and techniques: freehand drawing, orthographic and isometric projections and perspectives. Corequisite: ARC 1301. (F)

ARC 1132 Graphic Communication II (3). The second course in graphic communication. Students will develop presentation skills and broaden their visual experience. Presentations will incorporate two and three-dimensional design elements. Prerequisite: ARC 1131, Corequisite: ARC 1302 (S)

ARC 1190 Portfolio Design I (3). An introduction to creating, binding and reproducing graphic materials for presentation.

ARC 1191 Portfolio Design II (3). The second course in Portfolio Design. Students will develop their own portfolios using a variety of techniques. Prerequisite: Portfolio Design I.

ARC 1301 Design I (4). An introduction to concepts, fundamental design elements, and systems of order that inform two and three-dimensional design. Corequisite: ARC 1131. (F)

ARC 1302 Architectural Design II (4). A continuation of Design I (ARC 1301). An introduction to principles of proportion and scale with an emphasis on the relationship between the body and three-dimensional space. The design process is emphasized. Prerequisite: ARC 1301; Corequisite: ARC 1132. (S)

ARC 1461 Methods and Materials of Construction I (3). The first course in methods and materials. Physical and chemical properties of materials, manufacture, size and shape, and performance under normal loads in a variety of light construction assemblies. (F)

ARC 1930 Special Topics/Architectural Design I (4). An introduction to the basic perceptual, social, cultural, environmental and technical issues of architectural design. Basic architectural design projects.

ARC 2210 Design Concepts (3). Introduction to principles of design and perception, study of user's need for relationship with environmental and human factors. Examination of design ideas and their development. (S)

ARC 2303 Architectural Design 3 (4). Site, social, cultural, and environmental issues are the generator for design projects with repetitive spatial and programmatic elements. The design process is emphasized. Prerequisites: ARC 1302 and ARC 2701. (F)

ARC 2304 Architectural Design 4 (4). A continuation of Design 3 (ARC 2303). The relationship between ideas and structural systems, materials and details are explored in small scale architectural projects. The design process is emphasized. Prerequisites: ARC 2303, ARC 1461. (S)

ARC 2701 History of Architecture I (3). Comprehensive study of architectural forms, styles and construction techniques from prehistory to the thirteenth century, including western and non-western traditions. (F)

ARC 2702 History of Architecture II (3). Comprehensive study of architectural forms, styles and construction techniques from the thirteenth to the eighteenth centuries, including western and non-western traditions. Prerequisite: ARC 2701. (S)

ARC 2931 Architectural Design 2 (4). Proportioning systems for architecture students stressing the understanding of human proportions in a 3D Space Research on modulating techniques and integration of interior and exterior spaces. Prerequisite: ARC 1930.

ARC 3057 Computer Graphics in Design (3). An intensive hands-on introduction to software for processing text and graphics, as it relates to the field of graphic design. Various computer applications in design. Prerequisite: CGS 2060.

ARC 3133 Graphic Communication (3). To develop the understanding and graphic skills necessary for the conception and communication of design and engineering technology. The course is flexible in order to accommodate different student backgrounds. Basic graphic methods and media, including orthographic and isometric projection; one and two-point perspective; composition, lettering, and presentation techniques.

ARC 3243 Introduction to Design Theories (3). Introduction to the environmental parameters, morphological concepts and ideological principles that generate form and meaning in architecture and landscape architecture. (F)

ARC 3463 Materials and Methods of Construction II (3). A study of the
types of construction and materials used in building interiors. How materials are properly installed and inspected, including the use of special equipment, in accordance to drawings, specifications, codes, standards, and agencies’ recommendations. Prerequisite: ARC 1461. (S)

ARC 3919 Architectural Research Methods (3). Survey of research methods applicable to the study of the cultural, spatial, material and aesthetic implications of architecture. The emphasis of the course is on involvement in original research. (F)

ARC 4030 Film and the Architecture of Modern Life (3). Critical overview of social and spatial implications of film on architecture and design over the course of the 20th century.

ARC 4058 Computer Applications in Architecture (3). Advanced study of computer software packages applicable to the architecture office environment, with particular emphasis on CAD software, graphics packages and desktop publishing. (F,S,SS)

ARC 4114 Special Projects (3). Will focus on the development of adequate drawing skills in relationship to the understanding of a building and a site through sketching, graphic analysis, measured drawings, rendering and presentation. The course consists of site visits and workshops.

ARC 4173 3D Computer Modeling (3). This course will explore computer modeling in Architecture. Prerequisite: Program Approval.

ARC 4174 Computer Rendering in Architecture (3). This course will explore 3D rendering in architecture. Prerequisites: Program approval.

ARC 4227 Gender and Architecture (3). A theoretical, visual and professional exploration of women’s and men’s roles, identities, and histories in public and private built environments.

ARC 4270C Professional Office Practice (3). Assignments in office administration, negotiation of contracts, fee structure, professional ethics, client and public relations. Business organization, procedure scheduling and task allocation within an architectural office. Prerequisite: Senior standing. (F)

ARC 4324 Architectural Design 5 (4). Integration of structure and construction techniques in the production of a small to mid-sized public project that incorporates site considerations, materials and structure. Prerequisites: ARC 2304, BCN 2402C and admission to the major. (F)

ARC 4335 Architectural Design 6 (4). This studio focuses on housing and related components including the repetitive spatial and structural elements, circulation and contextual considerations. Prerequisites: ARC 4324. (S)

ARC 4342 Architectural Design 7 (4). A flexible framework for appropriate investigations of complex spatial, programmatic, contextual, constructional and ethical issues involved in design projects. Course content varies with instructor. Prerequisites: ARC 4335. (F)

ARC 4343 Architectural Design 8 (4). Architectural design explorations of site, building codes, community objectives will be undertaken through individual programming, process and design initiatives for a complex building project. Pre-requisite: ARC 4342. (S)

ARC 4553 Structural Design (4). Elements of structural design in steel, reinforced concrete, and timber, with design specifications per AISC, ACI and NDS. Introduction to prestressed concrete design. Loadings and structural elements commonly encountered in construction will be used for analysis and design. Prerequisite: BCN 2402C or equivalent. (SS)

ARC 4696 Basic Utilities and Housing (3). The study of the importance of basic utilities (such as roads, sewer and water supply systems) in housing planning and construction. A relative cost analysis. Health problems and sociological effects of lack of basic utilities. Innovative concepts to incorporate basic utilities to all housing projects in developing countries. Prerequisite: Permission of the instructor.

ARC 4730 Culture and Art in Italy (3). Course describes the evolution of culture and aesthetics and their immediate relationship with the creation of these works. Consists of site visits and class lectures.

ARC 4752 Architectural History of the Americas (3). Historical analysis of the development of built forms and styles in tropical and subtropical Americas. Investigating its socio-political and artistic context. Prerequisite: ARC 2701.

ARC 4754 Asian and African Architecture (3). Comprehensive study of architectural forms, styles, and construction techniques in Asia and Africa. Prerequisite: ARC 2701, ARC 2702, ARC 4783.

ARC 4755 The Architecture of the City (3). To analyze the layering that composes Rome's urban form and to offer a necessary basis of historical and theoretical information in order to take advantage of the Roman experience. Different periods of history of Rome are presented in lectures and site visits.

ARC 4783 History of Architecture 3 (3). A study of the development of architectural forms, styles and theories of the 19th and 20th centuries in relation to the socio-political and artistic evolution of the designed environment. Prerequisite: ARC 2701 and ARC 2702. (F)

ARC 4799 The Architecture and Landscape Architecture of South Florida (3). Overview of the natural resources, cultural traditions and architectural precedents which have fomented the regionalist architecture and landscape architecture of South Florida. Prerequisite: Program approval. (SS)

ARC 4905 Independent Study (1-5). Specialized individual studies under supervision of faculty advisor. Consent of faculty advisor required. Prerequisite: Departmental approval. (F,S,SS)

ARC 4910 Research Methods (3). Survey of architectural research methods that use primary and secondary sources and materials to study historical and contemporary issues involved in the built environment. Prerequisite: ARC 2304. (F)

ARC 5035 Film and the Architecture of Modern Life (3). Critical overview of social and spatial implications of film on architecture and design over the course of the 20th century.

ARC 5075 Formative Studio (6). Introduction to concept development, spatial expression, and representational techniques in architecture. (F)

ARC 5076 Formative Studio 2 (6). A continuation of architectural design investigations begun in Formative Studio. Prerequisite: ARC 5073. (S)
ARC 5077 Formative Studio 3 (6). An Architectural Design Studio that builds upon concepts and approaches presented in Formative Studio and Formative Studio 2. Prerequisite: ARC 5076.

ARC 5175 3D Computer Modeling in Architecture (3). This advanced course will explore computer modeling in architecture. Prerequisite: Program approval.

ARC 5176C Computer Practices in Design II (3). Advanced study in concepts, issues and methods in computer-aided architectural design. Prerequisite: ARC 4058 or equivalent.

ARC 5177 Computer Rendering in Architecture (3). This advanced course will explore 3D rendering in Architecture. Prerequisites: Program approval.

ARC 5205 Advanced Design Theories (3). This seminar analyzes western and non-western examples of critical ideology through the investigation of key historical moments and current architectural theory and practice. (S)

ARC 5361C Graduate Design 1 (6). Exploration of highly articulated projects of small scale utilizing innovative research methods to strengthen and clarify design concepts taken to a detailed resolution. Prerequisite: Graduate standing. Corequisite: ARC 5916. (F)

ARC 5362 Graduate Design 2 (6). This course explores architectural projects of medium to large scale applying innovative building technologies to a highly resolved spatial organization. Prerequisite: ARC 5361C. (S)

ARC 5396 Case Studies in Architecture (3). The course explores the vast array of decisions that create the architectural experience of outstanding built works.

ARC 5483I Innovations in Building Technology Lab (1). Field and laboratory exercises in the evaluation of technical support assemblies for buildings. Corequisites: ARC 5361C.

ARC 5750 Architectural History of the Americas (3). Historical analysis of the development of built forms and styles in tropical and sub-tropical Americas, investigating its socio-political and artistic context. Prerequisite: Program approval.

ARC 5786 Urbanism: Social History of the Built Form (3). This course introduces students to historical analysis, theories, techniques and aesthetics as they relate to urban design.

ARC 5803 Preservation Architecture: Issues and Practices (3). This course explores issues and practices of architectural preservation as an integral concern of architecture.

ARC 5916 Innovations in Building Technology (3). Experimental approach to new materials and methods applicable to the field of construction. Corequisite: ARC 5361C. (F)

ARC 5933 Special Topics in Architecture (1-3). Course to address current special topics of interest developed in cooperation with private or public sector, building industry or professional associations. Prerequisite: Program approval.

ARC 5XXX Site Development in Architecture (3). Issues, controls and methods pertinent to the physiographic, topographical, and cultural determinants of site design in architecture.

ARC 5XXX Environmental Systems in Architecture (3). Development of an understanding of environmentally sensitive design. Climate and region as a major determinant of building design; sustainability, energy conservation, passive solar design, daylight and natural ventilation will be examined.

ARC 5XXX Alternative Studio (6). Topical studies in architecture, on issues of current interest, with the participation of visiting lecturers, or abroad. (SS)

IND 1932 Special Topics/Interior Design I (4). An introduction to the basic perceptual, social, cultural, environmental and technical issues of interior design. Basic interior design projects.

IND 2100 History of Interiors I (3). An analysis of the history of architectural interiors, furniture and decorative arts from ancient times through the Neo-Classical Period. Recommended prerequisite: ARC 2701. (S)

IND 2130 History of Interiors II (3). An analysis of the history of architectural interiors, furniture and decorative arts from the Neo-Classical Period to the present. Prerequisite: IND 2100. (F)

IND 2220 Interior Design 4 (4). Fundamental problems of interior design, spatial organizations, and human factors. Attention to interior construction details by means of scale, finishes, furniture and equipment. Prerequisites: ARC 2303 or equivalent. (S)

IND 2260 Interior Design 8 (3). The final studio involves projects of increased scale and complexity. The studio emphasizes the diversity of aspects that integrate the design process from conceptual formulations and programming to the full development of the design thesis. Prerequisite: IND 4225. (S)

IND 2423 Sources, Materials, and Cost Estimating for Interiors (3). Sources and materials used by interior designers in the development of a design project. Materials available in the market for furniture finishes and equipment and its costs are analyzed. Prerequisite: IND 3215. (S)

IND 2430 Lighting Design (3). A fundamental course in lighting with emphasis on interaction with the design of an interior space. (F)

IND 3215 Interior Design 5 (4). Analysis, programing and design of commercial facilities including hospitality and retail. Students research the functions, and requirements of the project, design the interior spaces, develop architectural details and work on the selection of furniture and finishes. Prerequisite: IND 2220. (F)

IND 3216 Interior Design 6 (4). Consideration and application of design criteria with an emphasis on planning and design of interior for the work environment. Students develop programs, work on space planning, as well as furniture selection, illumination, and selected architectural details. Prerequisite: IND 3215. (S)

IND 3451 Interior Design Construction Drawing 1 (4). Development of Interior Design working drawings with emphasis on detailing and cabinetry. Prerequisite: ARC 2132, IND 2220.

IND 3455 Interior Design Construction Drawing 2 (4). Development of Interior Design working drawings with emphasis on details and schedules using computer technology. Prerequisites: IND 3451 and ARC 4058. (SS)

IND 4225 Interior Design 7 (4). Analysis of the human condition in
design. Topics include the behavioral and environmental sciences, ergonomics, and ecology and their impact on design. Prerequisite: IND 3216. (F)

IND 4311 Color, Media and Methods of Presentations (3). Applications of media and materials used in presentation of design concepts and programs to clients, groups, and organizations. Emphasis on various equipment and graphic techniques available, their application and use in simple and detailed communications. Corequisite: IND 3215. (F)

IND 4441C Furniture Design (3). Introduction to the human factors, concepts, function, materials and techniques of furniture design. Prerequisite: ARC 4058. (SS)

IND 4501 Interior Design Practice (3). The student will be introduced to the specific skills necessary to succeed in the preparation of legal documents and specifications. Prerequisites: IND 3215. (S)

IND 4943 Interior Design Research (1). Research required prior to registering Interior Design 8. Prerequisite or Corequisite: IND 3216 and IND 4225. (F)

LAA 1933 Landscape Design I (4). An introduction to the basic perceptual, social, cultural, environmental and technical issues of landscape architecture design. Basic landscape architecture design projects.

LAA 2934 Landscape Design 2 (4). An introduction to proportioning systems for landscape architecture students stressing the understanding of human proportions related to several scales of the natural and man-made environments. Prerequisite: LAA 1933.

LAA 3333 Site Analysis and Design (3). Introduction to ecological, functional, aesthetic considerations in site analysis, planning and design.

LAA 3350 Landscape Design I (4). Application of Basic Design principles to the design of landscape and garden. A general survey of design elements, restraints, plant materials, and other garden materials will aid the student to develop projects in a laboratory environment. Prerequisite: ARC 3133 (S)

LAA 3712 History of Landscape (3). A survey of landscape history throughout the ages. From the gardens of Mesopotamia, Roman and Islamic periods, the Monastery and Castle gardens of middle ages and the Renaissance, to the influence of Oriental gardens and the modern era. Prerequisite: Permission of the instructor.

LAA 3XXX GIS Applications in Landscape Modeling (3). Introduction to spatial modeling capabilities of GIS in the environmental planning process addressing ecological issues and the physical, biological and social characteristics of the landscape. Prerequisite: Program Approval.

LAA 4377 GIS Applications in Landscape Modeling (3). Introduction to modeling capabilities of GIS in the environmental planning process addressing the natural and cultural characteristics of the landscape. Prerequisite: Program Approval.

LAA 5223 Theory of Planting Design (3). Study of principles and methods related to the ecological, functional, and aesthetic use of vegetation in landscape architecture. Prerequisite: Program approval. (SS)

LAA 5235 Theory of Landscape Architecture (3). Critical review of the environmental parameters, morphological concepts and ideological principles that generate form and meaning in landscape architecture. Prerequisite: LAA 5716. (S)

LAA 5243 Regional Landscape Issues (3). Exploration of the landscape as cultural construct of social, economic, and scientific values relevant to regional issues of land use and management. Prerequisite: Program approval. (SS)

LAA 5335 Landscape Development (3). Technical aspects of the design and specification of earthwork, including materials, products, and methods of installation used in landscape development. Prerequisite: LAA 5371. (F)

LAA 5371 Computer Practices in Landscape Architecture (3). Computer applications of graphics, modeling, and animation techniques used in landscape architecture. Prerequisites: Program approval. (SS)

LAA 5374 Introduction to Computer Practices in Landscape Architecture (3). Computer application of drafting and design techniques used in landscape architecture. Prerequisite: Program approval. (F)

LAA 5378 GIS Applications in Landscape Modeling (3). Introduction to modeling capabilities of GIS in the environmental planning process addressing the natural and cultural characteristics of the landscape. Prerequisite: Program Approval.

LAA 5424 Landscape Construction (3). Technical aspects of the design and specification of sitework, including materials, products, and methods of installation used in landscape construction. Prerequisite: LAA 5335. (S)

LAA 5425 Landscape Construction Documentation (3). Production of landscape construction documents, including drawings and project manual with bidding documents, contract documents and technical specifications on the computer. Prerequisite: LAA 5427. (F)

LAA 5427 Landscape Structures (3). Production of landscape construction details for structures and systems used in landscape architecture. Prerequisite: LAA 5424. (F)

LAA 5540 Landscape Horticulture (3). Overview of horticultural management practices related to the growth, transport, installation, and maintenance of vegetative materials used in landscape architecture. Prerequisite: Program approval. (SS)

LAA 5541 South Florida Landscapes (3). Study of the structure, function, and change in the natural and cultural landscapes of tropical and subtropical Florida. Prerequisite: Program approval. (S)

LAA 5652 Formative Studio (6). Introduction to concept development, spatial expression, and representational techniques in landscape architecture. Prerequisite: Program approval. (F)

LAA 5653 Site Studio (6). Application of landscape architecture principles and methods to site design in tropical and subtropical contexts. Prerequisite: LAA 5652. (S)

LAA 5715 History and Theory of Architecture (3). Overview of the history and theory of architecture and urban design from antiquity to the present. Prerequisite: Program approval. (SS)

LAA 5716 History of Landscape Architecture (3). Historical survey of the principal sites and traditions manifested in the evolution of
landscape architecture and urban design from antiquity to the present.
Prerequisite: Program approval. (F)

URP 5316 Environmental and Urban Systems (3). Overview of basic issues and principles of environmental and urban planning and design systems. Emphasis will be placed on multidisciplinary linkages.

URP 5912 Research Methods (3). Methods of information search, data interpretation, and hypotheses formulation used in the field.
School of Architecture

Dean: Juan Antonio Bueno
Associate Dean: David F. Bergwall

Faculty

Andía, Alfredo, MDes, PhD
(University of California-Berkeley),
Assistant Professor, Architecture

Baker, Ted, MLA, MDes, FASLA
(Harvard University), Associate Professor, Landscape Architecture,

Belcher, Nathaniel, MArch, AIA
(Harvard University), Assistant Professor, Architecture

Bergwall, David F., MBA, DBA
(George Washington University),
Associate Professor, Associate Dean

Bueno, J.A., MLA, ASLA, PE
(Harvard University), Associate Professor, Dean

Canaves, Jaime, MArch, FAIA, IIDA
(University of Florida), Associate Professor, Architecture

Canaves, Marta, MLA, IDA
(Florida International University),
Assistant Professor and Director Landscape Architecture

Chandler, Jason R., MArch, AIA
(Harvard University), Visiting Assistant Professor, Architecture

Jenkins, Dennis, BA (San José State College), Visiting Assistant Professor and Acting Director, Interior Design

López-Mata, Gisela, MS (Pratt Institute), Associate Professor, Interior Design

Majzub, Iraj E., DArch, RA
(University of Torino), Professor, Architecture

McMinn, William G., MArch, FAIA
(University of Texas), Professor, Architecture

Nepomochie, Marilys, MArch, AIA
(Massachusetts Institute of Technology), Assistant Professor Architecture

Ozdenerol, Esra, MLA, PhD
(Louisiana State University),
Assistant Professor, Landscape Architecture

Quintana, Nicolás, NCARB
(University of Havana),
Professor, Architecture

Read, Gray, MArch, PhD, RA
(University of Pennsylvania),
Assistant Professor, Architecture

Rosales, Camilo, MArch, RA
(Harvard University), Associate Professor, Architecture

Smith, Kevin, MArch, (Virginia Polytechnic and State University),
Assistant Professor, Architecture

Stuart, John A., MArch, AIA
(Columbia University), Associate Professor, Architecture
College of Arts and Sciences
College of Arts and Sciences

The Mission of the College of Arts and Sciences is to teach, engage in research and creative artistic activity, and serve the community. This mission derives from the College's traditional focus on the fundamental intellectual disciplines and the premise that a coherent and intellectually rigorous curriculum of the humanities, arts, mathematics, and the social and natural sciences is the foundation for excellence in any undergraduate education. The College provides such programs for students enrolled as freshmen in the University's Core Curriculum and offers General Education and elective courses for transfer students who seek degrees from the University's other colleges and schools. Many professional degree programs require courses in specific Arts and Sciences disciplines; these needs are carefully addressed. In addition, the College services the broader community's needs by offering a variety of courses to non-degree seeking students.

The College's mission goes beyond introductory and service courses by exploring the full implications of the arts and sciences disciplines in historical and contemporary society. High quality undergraduate degree programs educate students in the fundamentals of each discipline. Graduate programs provide in-depth training for the best students and allow faculty members the opportunity to teach at the frontiers of their fields. Rigorous academic research, scholarship, and creative activity are integral components of faculty activities in all disciplines and are the heart of graduate education.

Characteristically, the liberal arts endeavor is to synthesize. Thus, in addition to traditional degree programs, the College coordinates special areas and interests through a number of certificate and interdisciplinary degree programs.

The College is composed of 19 departments, the School of Computer Science, the School of Music, and several interdisciplinary programs.

Undergraduate Programs

The College offers departmental programs of study leading to Bachelor's degrees in art and art history, Asian studies (as a second major only), biological sciences, chemistry, computer science, dance, earth sciences, economics, English, environmental studies, French, geography, history, information technology (as a second major only), international relations, marine biology, mathematical sciences, mathematics, music, music education, philosophy, physics, political science, Portuguese, psychology, religious studies, sociology and anthropology, Spanish, statistics, and theatre. The College also offers interdisciplinary programs leading to Bachelor's degrees in humanities, liberal studies, and women's studies. A labor studies concentration is available in the liberal studies program.

Minor programs of study are offered in art and art history, biology, chemistry, computer science, dance, earth sciences, economics, English, environmental studies, French language and culture, general translation studies, geography, history, humanities, international relations, mathematical sciences, mathematics, music, philosophy, physics, political science, Portuguese, psychology, religious studies, sociology and anthropology, Spanish language and culture, statistics, and theatre.

Certificate Programs


Admission

FIU freshmen and sophomore students may be coded with an "intended" major in the College upon earning 24 semester hours.

They may be fully admitted to the College if they have earned 60 semester hours, have a cumulative grade point average (GPA) of 2.0, and have passed the CLAST: (Music Education majors must have a 2.5 GPA overall). Full admission to the College is accomplished by filing the form "Request for Acceptance into Upper Division College/School."

A transfer student having an Associate in Arts degree from a Florida community college or having completed the equivalent coursework at a four-year institution with a minimum of 60 semester hours earned, having a cumulative grade point average (GPA) of 2.0, and having passed the CLAST may be admitted to a program in the College. Applicants must submit an Application for Admission to the University and must follow the regular University procedures. Applicants must be eligible for admission to the University before admission to the College.

All students are encouraged to seek advising as early as possible in the department/program of their choice, even if they have not yet been fully admitted into that major.

College Requirements for a Baccalaureate Degree

Candidates to the Bachelor's degree must satisfy individual departmental requirements, and the following College requirements, in addition to the University-wide requirements:

1. A minimum of 120 semester hours in acceptable coursework is required.
2. At least half of the upper division credits in any major must have been taken in at FIU.
3. In the last 60 semester hours of enrollment, students must earn nine semester hours of elective credits through coursework outside the major, six of which are to be taken outside the department sponsoring the program.
4. Students must earn a grade of "C" or higher in all courses required for the major. A grade of "C-" or lower is not acceptable in any required course.
5. Of the total number of hours submitted for graduation, a minimum of 48 semester hours must be in upper division courses.
6. Students must demonstrate competency in a foreign language equivalent to the second semester of a college-level language sequence. Students may fulfill this requirement by successfully completing with a grade of 'C' or better (C- does not count): a) the second semester of a two-semester sequence basic language course or b) any second-year or third-year foreign language course. This requirement may also be fulfilled by presenting acceptable scores in the Advanced Placement Exam, the SAT II, the CLEP exam, or other approved instruments. Students should consult their advisors for more specific information.

7. One-and-a-half-credit physical activity courses (with the prefixes PEL, PEM, PEN) cannot be included as part of the hours needed for graduation.

College Requirements for a Minor
Students who desire to earn a minor must satisfy individual departmental/program requirements and the following College requirements:

1. At least half of the courses used to fulfill the requirements must have been taken at FIU.

2. Earn a grade of "C" or higher in all courses required for the minor. A grade of "C-" or lower is not acceptable in any required course.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Education and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Phi Beta Kappa
The College of Arts and Sciences is home to the Epsilon chapter of Phi Beta Kappa, the nation's most prestigious honor society. Established in 1776 at the College of William and Mary, this society is exclusively for arts and sciences majors who have studied broadly in a variety of its disciplines.

Membership is by invitation only by application. During the semester when students graduate, they are evaluated by the chapter to determine their eligibility. Summer graduates are considered during the succeeding fall semester. The chapter committee examines not only the student's grade point average, but also the breadth and rigor of coursework in the arts and sciences. In particular, candidates need to demonstrate knowledge of mathematics and of a foreign language at least minimally appropriate for liberal education.

Students who wish further information on the requirements for membership should contact Professors Richard Olson (Political Science) or Marian Demos (Humanities/Modern Languages).

Interdisciplinary Courses
The College of Arts and Sciences has several interdisciplinary programs which are not based in a specific academic department. The courses offered by these programs therefore are not found in the departmental listings in the Catalog. For this reason, they are included here.

SLS 1501 First Year Experience (1).
A review of basic skills and competencies necessary to college success including time management, study skills, and academic policies/procedures. Includes mandated information.

African-New World Program Undergraduate Courses


AFA 3153 African Civilization, Religion and Philosophy (3). An Introductory level overview of Ancient African origins of Civilization, Religion and Philosophy. Prerequisites: Introduction to African New World Studies AFA 2000 or approval of director.

AFA 4104 Teaching the African-American Experience (3). Teachers Institute which includes literature, culture, history, politics, and the arts designed to meet Florida State Teachers Certification requirements. Includes instruction on pedagogy, teaching methods and FCAT.

AFA 4930 African-New World Studies: Theory & Methods Seminar (3). The nature, meaning and intent of intellectual production in Africa and the diaspora. Examines the works of key thinkers that have made visible some of the submerged or appropriated realities of African peoples.

AFA 4931 Special Topics in African-New World Studies (3). An examination of different features of African-New World Studies, not normally offered in the basic curriculum or otherwise offered. May be repeated.

AFA 4933 Special Topics in Black Transnationalism (3). A course designed to give groups of students special studies in the black experience transnationally. Prerequisites: Introduction to African-New World Studies AFA 2000.

European Studies

EUS 4920 Colloquium: European Studies (3). Interdisciplinary course, co-taught by faculty from the humanities and social sciences, provides students a comprehensive picture on a subject relevant to modern Europe. Topics will vary.

Social Science

Interdisciplinary

SSI 3240 World Prospects and Issues (3). This course examines, from a multidisciplinary point of view, specific global issues such as food, population, and arms control. The issues discussed may change from one semester to the next. Written work meets the state composition requirement (6,000 words).
Art and Art History

Carol Damian, Associate Professor and Chair
Tori Arpad, Assistant Professor
Pip Brant, Assistant Professor,
Ralph F. Buckley, Associate Professor
William Burke, Professor
James M. Couper III, Professor
Eduardo Del Valle, Professor
Richard Duncan, Associate Professor
Mirta Gomez, Professor
Daniel Guernsey, Assistant Professor
Clive King, Professor
Kate Kretz, Associate Professor
William Maguire, Professor
Juan Martinez, Associate Professor
Dahlia Morgan, Professor and Director, Art Museum
Geoffrey Olsen, Associate Professor, Graduate Director
Manuel Torres, Professor
Barbara Watts, Associate Professor

Bachelor of Fine Arts

Degree Program Hours: 120

Lower Division Preparation

Common Prerequisites
ARH 2050 Art History Survey I
ARH 2051 Art History Survey II
ART 1201 Basic Design
ART 1202 2D Design
ART 1203 3D Design
ART 2300 Drawing I
ART 2301 Drawing II
Completion of two of the following:
ART 2330 Figure Drawing I
ART 2752 Ceramics I
ART 2150 Jewelry and Metals
ART 2183 Glassblowing I
ART 2400 Printmaking I
ART 2500 Painting I
ART 2702 Sculpture I
ART 2705 Figure Sculpture I
PGY 2401 Photography I

Remarks: The student who does not have an A.A. degree or who lacks proficiency in required courses, or both, will be expected to take more than 60 semester hours to complete the bachelor's degree, or to make up courses at the lower division level.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

BFA ART Scholarships

All Arts scholarships are awarded as a result of the faculty's Spring Review, usually in April. Students should contact the department at 348-2897 for information on procedures for participation in the Spring Review.

Upper Division Program (60)

Required Courses: (48)

ARH 4450 Modern Art
ARH 4470 Contemporary Art
ART Elective (upper division)
Studio Major 15

ART 3820/3821 Visual Thinking I & II 6

ART 4952/4953 Thesis I & II 6

ART, ARH, PGY Electives outside Studio Concentration 12
Electives outside of major 9

Bachelor of Art History

The Art and Art History Department offers a BA in Art History that is designed to introduce students to the methodologies and subjects of Art History from throughout the world. In addition to traditional European-American subjects from Ancient to Contemporary Art, the Art Department at FIU offers a strong emphasis on Latin American Art History, from the Pre-Columbian to the present. The BA provides professional education in Art History to prepare students for careers as art professionals and for graduate school. The BA complements one of the most highly regarded BFA programs in the country and encourages interaction between artists and historians.

Students are required to take the following courses:

Lower Division Requirements (60 credits)

Common Prerequisites:

ARH 2050 Art History Survey I 3
ARH 2051 Art History Survey II 3

ART 2051 Art History Survey II 3

ART 1202 2-D Design 3

ART 1300 Beginning Drawing 3

ART 2300C Drawing I 3

Foreign Language 10

Core/General Education Electives 36
Electives 2

Upper Division Requirements (60 credits)

ARH 3791 Introduction to Art Historical Methodology 3

ARH 4450 Modern Art 3

ARH 4470 Contemporary Art 3

ARH Core:
Choose one from each of the following areas:

Renaissance/Baroque 3
19th Century 3
20th Century 3
Non-Western & Pre-Columbian 3
Latin American 3

ARH electives 6

Thesis (ARH 4970) 3

ART electives 3
Electives 24

Note: students planning to go to graduate school should have competency in an appropriate language

Minor in Art

(18 semester hours)

ARH Elective (upper division) 3

ART 2300C Drawing I 3

or

ART 3331C Figure Drawing II 3

ART Studio Electives (upper division) 12

Minor in Art History

(18 semester hours)

ARH 4450 Modern Art 3

ARH 4470 Contemporary Art 3

ART Studio Elective (upper division) 3

ARH Electives (upper division) 9

Course Descriptions

Definition of Prefixes

ARH-Art History; ART-Art; PGY-Photography.

ARH 2050 Art History Survey I (3).

A broad survey of the visual arts and architecture from the Paleolithic Period through the Middle Ages.

ARH 2051 Art History Survey II (3).

A broad survey of the visual arts and architecture from the Renaissance through the Modern Age.

ARH 3210 Early Christian and Byzantine Art (3).

The art of Byzantine Empire from the early Christian period and the foundation of Constantinople to the Ottoman conquest and afterward (300-1500 A.D.). Prerequisite: ARH 2050 or permission of the instructor.

ARH 3350 Baroque Art (3).

European art of the 17th and early 18th centuries. Artists to be studied include Bernini, Caravaggio, Velazquez, Vermeer, Rembrandt, Rubens, Poussin, La Tour, and Watteau. Prerequisite: ARH 2051.

ARH 3791 Seminar: Studies in the Methodology of Art History (3).

To introduce art history majors to the variety of methods scholars have
adopted and developed for conveying their perspectives on art history. Prerequisite: ARH 2050 and ARH 2051.

ARH 3930 Special Topics in Art History (3). Rotating special topics in Art History. May be repeated with change of content. Prerequisites: ARH 2050 and ARH 2051 or permission of the instructor.

ARH 4014 History of Decorative Arts (3). A survey of the more important and influential periods in history in the production of ceramics, fabrics, glass, jewelry and silver-smithing. Slides, lectures, student research.

ARH 4131 Greek Art (3). Lectures, slides, research. The Art of Greece from the Bronze Age through the Classical Period.

ARH 4151 Roman Art (3). Lectures, slides, research. The Art of Ancient Rome from the Early Iron Age through the Late Roman Empire.

ARH 4310 Early Italian Renaissance (3). A study of Italian Renaissance art from its origins in the Late Gothic period through the fifteenth century. Artists to be considered include Giotto, Duccio, Masaccio, Ghiberti, Brunelleschi, Donatello, Fra Angelico, Uccello, and Botticelli.


ARH 4312 Later Italian Renaissance (3). A study of the late 15th and 16th century Italian art, with emphasis on the High Renaissance and Mannerism. Artists to be considered include Leonardo da Vinci, Michelangelo, Raphael, Andrea del Santo, Giorgione, Titian, Pontormo, and Parmigianino.

ARH 4400 Primitive Art (3). An introduction to the art of widely dissimilar groups from areas on the margin or beyond the cultural influences of Europe, the Near East, India, China, and Japan. Emphasis will be placed on African, Oceanic, and North American Indian Art.

ARH 4430 Art and Politics (3). An investigation into the interrelationship between art and political issues, with emphasis on the 19th and 20th centuries.

ARH 4431 19th Century Painting (3). A study of Neoclassicism, Romanticism, Realism, and Impressionism. Artists to be considered include David, Ingres, Gericault, Delacroix, Goya, Courbet, Manet, Degas, Monet, and Renoir.

ARH 4432 Neoclassicism and Romanticism (3). Examines the Neoclassical and Romantic movements in European art from 1750 to 1850. Artists considered include David, Goya, Gericault, Delacroix, Constable, Turner, and Friedrich. Prerequisite: ARH 2051 or permission of the instructor.

ARH 4450 Modern Art (3). Lectures, films, slides. A survey of European and American Art from 1890-1945. ARH 2051, or permission of the instructor. Prerequisite: ARH 2051 or permission of the instructor.

ARH 4454 Post 1985 Art (3). Examines the changing roles of the arts within the current socio-political context of pluralism, corporate sponsorship and mass communications.

ARH 4470 Contemporary Art (3). Lectures, slides, visitors and student research. A survey of art from 1945 to the present. Prerequisites: ARH 2051 or ARH 4450, or permission of the instructor.

ARH 4552 Art of China and Japan (3). An introduction to the art of China to the Ming Dynasty and of Japan through the 18th century. The emphasis will be on painting and sculpture, with some ceramics and architecture.


ARH 4610 American Art (3). A survey of American painting from the Colonial period to the eve of World War I. Artists to be studied include Copley, West, Cole, Whistler, Sargent, Homer, Henri, and Bellows.

ARH 4650 Pre-Columbian Art (3). Slides, lectures, research. A survey of Pre-Columbian art from approximately 2000 B.C. to 1500 A.D. of Mesoamerica, Intermediate area from Honduras to Columbia and the Andes.

ARH 4651 The Art of Spain and Her Colonies (3). Course explores art of Spain from 1492 through early 19th century, the encounter between Spain and the Americas after the conquest, and the art of the colonies.

ARH 4652 Pre-Columbian Art of the Andes (3). A survey of Andean Pre-Columbian art and architecture. Basic characteristics of technique, style and iconography in relation to Andean socioeconomic and cultural patterns.

ARH 4653 Mesoamerican Art History (3). A survey of Mesoamerican Pre-Columbian art and architecture from the Mexican and Mayan territories, 1500 BC to the Conquest.

ARH 4670 20th Century Latin American Art (3). Lectures, films, slides. The Art of Central, South America and the Caribbean from the Twentieth Century.

ARH 4672 A History of Cuban Art (3). A survey of the visual arts in Cuba (sculpture, painting, and prints) with emphasis in the 20th century.

ARH 4710 History of Photography (3). A chronological examination of the work of the world’s most significant photographers, from photography’s invention in the 1830’s to the present.

ARH 4713 History of Photography Since 1945 (3). An examination of the most significant photographic works, critical concepts, and new trends which have arisen since WWII. Prerequisite: ARH 4710.

ARH 4871 Women and Art (3). Women in the history of art; past, present and future. Slides, lectures, films, panels and discussions.

ARH 4905 Directed Studies (1-6). A group of students, with the approval of the art faculty, may select a master teacher of theory, research or criticism in selected areas as film, painting, sculpture, architecture, crafts, art history, multi-media art, etc. Arrangements must be made at least a semester before course is offered. May be repeated.

ARH 4910 Research (1-6). Art history, criticism, and theory in areas not covered by the present program and which the student wishes to study. Prerequisite: Permission of the instructor. May be repeated.

ARH 4970 Art History Thesis (3). Required for ARH majors. Students will research a topic and prepare a serious quality paper. Prerequisites: ARH 3791.
ARH 5465 Modern Art (3). Offers a history of modern art from ca 1880 to 1940. It concentrates on the study of European and American Avantgarde visual art movements with emphasis between their art and modern society. For graduate students.

ARH 5654 Graduate Art of Spain and Her Colonies (3). Course explores art of Spain from 1492 through early 19th century, the encounter between Spain and the Americas after the conquest, and the art of the colonies. Graduate level readings. For graduate students.

ARH 5671 Seminar in 20th Century Latin American Art (3). This course will examine the art of the 20th century, through seminar focusing on painting and sculpture in Europe and America from the end of the 19th century to the 1940. For graduate students.

ARH 5715 History of Photography (3). A chronological examination of the work of the world's most significant photographers from photographic works and ideas from invention to the present. For graduate students.

ARH 5716 History of Photography Since 1945 (3). An examination of the most significant photographic works, critical concepts, and new trends which have arisen since WWII. Prerequisite: ARH 4710. For graduate students.

ARH 5796 Critical Studies in the Visual Arts (3). Introduction to the methods and concerns of recent art history. Discussion of students' work in context of the contemporary art world. Prerequisite: ARH 4450 and ARH 4470. For graduate students.

ARH 5872 History of Women Artists (3). Surveys the history of women artists with some discussion of the history of images of women. For graduate students.

ARH 5897 Special Topics in Art History (3). Rotating special topics on the graduate level in art history. May be repeated with change of topic. Prerequisite: ARH 4450 and ARH 4470. For graduate students.

ARH 5907 Directed Studies (1-6). A group of students, with the approval of the art faculty, may select a master teacher of theory, research or criticism in selected areas as film, painting, sculpture, architecture, crafts, art history, multi-media art, etc. Arrangements must be made at least a semester before course is offered. May be repeated. For graduate students.

ARH 5913 Research (1-6). Art history, criticism, and theory in areas not covered by the present program and which the student wishes to study. Prerequisite: Permission of the instructor. May be repeated. For graduate students.

ART 1201C Basic Design (3). Beginning course to introduce students to concepts of basic design as prerequisite for visual arts classes.

ART 1202C 2D Design (3). Studio course introducing the basic art elements such as line, value, and color to develop the students vocabulary and awareness of two-dimensional potential in various media.

ART 1203C 3D Design (3). Studio course introducing the basic elements inherent in three-dimensional works of art. Shape, mass, balance, proportion, and scale are elements which will be explored.

ART 2150C Jewelry and Metalwork I (3). Introduction to materials, equipment and basic procedures in making jewelry and holloware. Identification, application and maintenance of machines and handtools, safety procedures, cutting, soldering and finishing projects.


ART 2300C Drawing I (3). An introduction to the fundamentals of drawing. The course equips the student with a variety of basic skills, approaches and concepts explored through a comprehensive range of medias.

ART 2301C Drawing II (3). The course is designed for the student who has acquired basic drawing skills. It strengthens technical and conceptual skills while introducing more experimental approaches. Modes of personal expression are also developed. Prerequisite: ART 2300C

ART 2330C Figure Drawing I (3). Drawing from model. Student will study gesture, movement, form, volume, light, and other varied media.

ART 2400C Printmaking I (3). Introduces the student to a number of processes. Explores primarily one of the following: etching, lithography or screen printing with excursions into relief collograph, monotype and color as appropriate.

ART 2401C Printmaking II (3). With a knowledge of basic intaglio and relief printing, the student will explore specific media such as etching, lithography, silk-screen and other experimental techniques.

ART 2500C Painting I (3). Introduction to development of expression, through individual understanding of tools, materials, technique, perception and vocabulary of painting.

ART 2702C Sculpture I (3). Beginning sculpture students will be given assigned problems structured to study the forms in nature and the work of other sculptors.

ART 2705C Figure Sculpture I (3). Introduction to figure sculpture. Basic studio course involving the study and rendering of the human figure using clay as the primary medium.

ART 2752C Ceramics I (3). A beginning course for art and non-art majors that introduces the fundamentals of throwing and glaze applications.

ART 3115C Low Temperature Ceramics (3). An in-depth study of low-temperature clays and glazes, and exploration of a variety of glazing and firing techniques, including lustres, residual salt, raku, white and red earthenware, etc. Prerequisite: ART 3110C.

ART 3151C Jewelry and Metalwork II (3). Basic metal fabrication techniques, use and maintenance of tools and equipment. Intermediate soldering, forming, finishing, forging, stone setting, raising, reticulation, fusing, and safety procedures. Prerequisite: Jewelry and Metalwork I or permission of the instructor.

ART 3152C Jewelry and Metalwork III (3). Continuation of Jewelry and metalsmithing techniques: soldering, stone setting, forging, forming, casting, raising, shell forming, enameling, fold forming and finishing. Prerequisite: Jewelry and Metalwork II or permission of the instructor.
ART 3158C Small Scale Metal Fabrication and Castings (3). Introduction to the technical and conceptual understanding needed to cast and fabricate soft metals.

ART 3184C Glassblowing II (3). Glassblowing: Furnace and/or lampworking, history of glass as an art form, maintenance of studio & tools and safety procedures. Prerequisite: Glassblowing I or permission of the instructor.

ART 3186C Glassblowing III (3). Intermediate Glassblowing: Furnace and/or lampworking, fusing, slumping, enameling, copper foiling, maintenance of studio and tools, and safety procedures. Prerequisite: Glassblowing II and/or permission of the instructor.

ART 3331C Figure Drawing II (3). Exploration of the live human figure as it determines our understanding of subject, theme, composition and meaning. Prerequisite: ART 2330C.

ART 3332C Figure Drawing III (3). Further exploration of the live human figure as it determines our understanding of subject, theme, composition and meaning. Prerequisite: ART 3331C.

ART 3402C Printmaking III (3). Exploration and expansion of experimental print processes as they relate to student’s own imagery and acquired skills. Greater independence and personal direction.

ART 3504C Painting II (3). Intermediate painting requiring refinement of technique and personal expression. Frequent critiques of student work. Prerequisite: ART 2500C.

ART 3521C Painting III (3). Intermediate painting requiring further refinement of technical skill and personal expression. Frequent critiques of student work. Prerequisite: ART 3504C.

ART 3593C Collage/Assemblage (3). Addresses content development issues as well as formal design and technical problems concerning collage and assemblages.

ART 3681C Introduction to Time Art (3). An introduction to the theory and practice of time based media.

ART 3702C Sculpture II (3). Intermediate sculpture is structured for the student who has acquired basic skills and is ready to test their creative abilities through individualized projects. Prerequisite: ART 2702.

ART 3710C Sculpture III (3). This class is an extension of ART 3703. Students are expected to continue to develop and explore new ideas. Prerequisite: ART 3702C.

ART 3713C Figure Sculpture II (3). A basic sculpture class emphasizing anatomical study with 2 and 3 dimensional rendering in clay, training the student to observe and accurately model the human figure. Prerequisite: Figure Sculpture I or permission of the instructor.

ART 3760C Ceramics (3). A beginning course for art and non-art majors. Fundamentals of throwing, hand-building, and glaze application. May be repeated.

ART 3761C Ceramics II (3). Intermediate ceramics is designed for the student who has acquired the fundamental skills taught in basic ceramics. Projects are designed to advance technical skills and aesthetic growth. Prerequisite: ART 2752C.

ART 3763C Figure Sculpture III (3) Intermediate figure sculpture where students refine their 2 and 3 dimensional renderings of the human figure. Prerequisite: Sculpture I and II or the permission of the instructor.

ART 3782C Ceramics III (3). Concentrates on the development of technical skills in relationship to personal vision, with a view towards a consistent body of work. Prerequisite: ART 3761C.

ART 3809 Performance Art (3). A workshop on the history and practice of performance art for the fine arts student. Focus on intersections with other visual arts media and social contexts. Not a course in dance, music or theater.

ART 3821 Visual Thinking I (3). A beginning studio-based course with a strong theoretical component where concepts are examined through a variety of approaches and media.

ART 3822 Visual Thinking II (3). An advanced studio-based course with a strong theoretical component where concepts are examined through a variety of approaches and media. Prerequisite: ART 3821.

ART 3830C Color Theory (3). This course is designed to familiarize the student with the theory and principles of color as it relates to the arts. Lecture, demonstration, and application through assigned projects will be included.

ART 3831C Materials and Techniques (3). Instruction in the craft of painting. Demonstration and exercise in the following will be included: color, pigments, ground, all major media, studio and equipment.

ART 3930 Special Topics in Studio Art (3). Rotating special topics in Studio Art. May be repeated with change of content.

ART 3949C Cooperative Education in Visual Arts (3). A student majoring in Visual Arts may spend several semesters fully employed in industry in a capacity relating to the major. Prerequisite: Permission of chairperson.

ART 4114C Ceramics (3). The advanced student will explore all aspects of expression in clay and glaze. Students will be expected to be mostly self-directed. Prerequisite: ART 3782C, or permission of the instructor. May be repeated.

ART 4151C Jewelry and Metals (3). See ART 2150C.

ART 4153C Jewelry and Metalwork IV (3). Advanced level work: enamel, raising, shell forming, granulation, niello, mokume, keumboo, reticulation, stone setting. Prerequisite: Jewelry II and III.

ART 4154C Jewelry and Metalwork V (3). Advanced level work and advanced techniques: enamel, raising, shell forming, fold forming, granulation, niello, mokume, keumboo, reticulation, and stone setting. Prerequisite: Jewelry III and IV.

ART 4156C Jewelry and Metalwork VI (3). Pre-thesis, in-depth study in some area related to metalsmithing. Projects may include work for a commission, exhibition or developing new techniques/design concepts. Participation in BFA show. Prerequisite: Jewelry and Metalwork I, II, III.

ART 4184C Glassblowing (3). See ART 3183C.

ART 4187C Glassblowing IV (3). Advanced Glassblowing: Furnace and/or lampworking, fusing, slumping, enameling, engraving, carving, copper foiling, casting. Maintenance of studio tools and safety procedures. Prerequisite: Glassblowing II and III or permission of the instructor.
ART 4188C Glassblowing V (3). Advanced Glassblowing Continued: Furnace and/or lampworking, fusing, slumping, enameling, engraving, carving, copper foiling, casting. Maintenance of studio and tools. Safety procedures. Prerequisite: Glassblowing IV.

ART 4312C Drawing III (3). Students at this level should have a proficient level of practice and conceptual skills. These skills are consolidated and further developed. There is a strong emphasis on self-directed study. Prerequisite: ART 2301C.

ART 4313C Drawing IV (3). Students are expected to possess an accomplished level of skill and a strong personal direction in order to focus on the development of a consistent body of personal work.

ART 4314C Drawing V (3). Advanced drawing toward coherent body of work. Prerequisite: ART 4313C.

ART 4315C Drawing VI (3). Drawing has to be BFA exhibition quality. Individual is engaged in a mature cohesive body of work. Prerequisite: ART 4314C.

ART 4320C Drawing (3). See ART 3310C.

ART 4332C Figure Drawing (3). See ART 3331C.

ART 4333C Figure Drawing IV (3). Students are expected to possess a developed level of skill in drawing the figure and a strong personal direction. Prerequisite: ART 3332C.

ART 4334C Figure Drawing V (3). Consolidation of the focus direction established in ART 4333C. Advanced drawing further developing technical and conceptual skills. Prerequisite: ART 4333C.

ART 4335C Figure Drawing VI (3). Work produced at the pre-BFA exhibition level. A strong cohesive body of figure drawings executed with a clear personal vision. Prerequisite: ART 4334C.

ART 4402C Printmaking (3). See ART 2401C.

ART 4403C Printmaking IV (3). Instructional emphasis will be toward individual solutions. Student expected to independently research technical problems. Prerequisite: ART 3402C.

ART 4404C Printmaking V (3). Student must be showing independence in initiating and executing projects. Self motivation, energy and purpose should be the focus. Prerequisite: ART 4403C.

ART 4405C Printmaking VI (3). Student should produce BFA exhibition work. (See ART 4405). Prerequisite: ART 4404.

ART 4505C Painting IV (3). Advanced painting with expectation of highly skilled technique and carefully evolved concerns that might continue into subsequent semesters. Prerequisite: ART 3521C.

ART 4506C Painting V (3). Advanced painting toward coherent body of work. Prerequisite: ART 4505C.

ART 4524C Painting VI (3). Advanced painting, BFA exhibition quality body of work expected at this level.

ART 4532C Painting (3). An advanced course concentrating on conceptual clarity and the realization of stylistic development. Group, individual criticism will be emphasized. May be repeated. Prerequisites: ART 2500C or equivalent. Suggested prerequisites: ART 4505C and ART 4506C.

ART 4618 Electronic Art (3). An introduction to electronic media for the first arts student. Computer and video as tools for the artmaking process. Not a course in programming or commercial computer graphics.

ART 4703C Sculpture (3). See ART 2702C.

ART 4714C Figure Sculpture IV (3). Advanced figure sculpture. Students develop skills in representational structure and anatomy from model and model-making techniques. Prerequisite: Figure Sculpture II and III or the permission of the instructor.

ART 4715C Figure Sculpture V (3). Advanced figure sculpture continued. Student refines skills in representational structure and anatomy from model and mold-making techniques. Prerequisite: Figure Sculpture III and IV or the permission of the instructor.

ART 4716C Figure Sculpture VI (3). Pre-thesis sculpture where students have refined their work to produce B.F.A. exhibition body of work. Prerequisite: Figure Sculpture V.

ART 4732C Sculpture IV (3). First of a series of advanced classes which represent the beginning of a serious aesthetic commitment leading to a BFA degree. Prerequisite: ART 3710C.

ART 4734C Figure Sculpture (3). To develop skills in representational structure and anatomy from the model and learn mold-making techniques. May be repeated.

ART 4741C Sculpture V (3). This class is an extension of ART 4705 and should be used to further advance previous efforts with the intention of producing major finished works. Prerequisite: ART 4732C.

ART 4742C Sculpture VI (3). The goal of this class is to bring fully developed ideas to a finished state in preparation for BFA thesis exhibition. Prerequisite: ART 4741C.

ART 4766C Ceramics IV (3). Focuses on the development of a well produced, accomplished body of work that reflects the individual's ideas. Prerequisite: ART 3782C.

ART 4783C Ceramics V (3). Concentrates on a single ongoing project personally defined by the student and explored within the larger context of art history and contemporary society. Prerequisite: ART 4766C.

ART 4785C Ceramics VI (3). Concentrates on further refinement of technical skills, development of a consistent and cohesive body of work and a clear articulation of artistic conception. Prerequisite: ART 4783C.

ART 4812C Installation Art (3). This special topics course explores the genre of installation and site-specific art through history and in terms of its ongoing influence on contemporary visual culture.

ART 4891 Independent Film Since 1960 (3). Examination of the structural and ideological attributes of narrative and documentary cinema, concentrating on alternatives to the studio system model. Viewing of selective history of independent film, and readings and discussions of theoretical texts.

ART 4906C Directed Study (VAR). A group of students, with the approval of the Art Department faculty, may select a master artist teacher and pursue a course of art study in selected areas such as graphic design, film, multimedia, environmental design, sound, etc. Arrangements must be made at
least one semester before course is offered. May be repeated.

ART 4910C Research (1-6). Students may study or research an individual art project with an art faculty member. Complexity and amount of work will determine the number of credit hours granted. May be repeated.

ART 4945 Art Gallery and Display (1-3). The study and participation of all aspects of Gallery operations, from daily operation to special exhibitions and events. Permission of Gallery Director.

ART 4949C Cooperative Education in Visual Arts (3). See ART 3949C.

ART 4952C Thesis I. The course will expose students to fundamental issues and ideas current in the field of art. An inquiry into the structure of art and its relationship to society, knowledge, and the self. Prerequisite: 15-18 hours of Studio Major and permission of the instructor (portfolio review).

ART 4953C Thesis II (3). Studio work in student's major area with major professor, resulting in a student exhibit. Arrangements with major professor one semester before graduation. Written thesis required. Prerequisite: Fall and Spring only and ART 4952C.

ART 5159C Jewelry and Metals (3). Advanced jewelry & metalwork for M.S. in Art Education students. May be repeated. Prerequisite: Permission of the instructor or ART 4156C.

ART 5185C Glassblowing (3). Advanced glassblowing for M.S. in Art Education students. May be repeated. Prerequisite: Glassblowing IV or equivalent or permission of the instructor.

ART 5189C Glassblowing VI (3). Pre-thesis glassblowing. Student produces coherent body of work suitable for exhibition. Prerequisite: Glassblowing IV and V.

ART 5390C Drawing (3). Advanced drawing for M.S. in Art Education students. May be repeated. Prerequisites: ART 4304C, or equivalent, or permission of the instructor.

ART 5391C Figure Drawing (3). Advanced figure drawing for M.S. in Art Education students. May be repeated. Prerequisites: ART 4333C, or equivalent, or permission of the instructor.

ART 5408C Printmaking (3). Advanced printmaking for M.S. in Art Education students. May be repeated. Prerequisites: ART 4404C, or equivalent or permission of the instructor.

ART 5580C Painting (3). Advanced painting for M.S. in Art Education students. May be repeated. Prerequisites: ART 4513 or equivalent, or permission of the instructor.

ART 5685C Advanced Time Art (3). Advanced course to refine students' skills in electronic and digital media production. Students are required to produce a multidisciplinary project. Prerequisite: ART 3681. For graduate students. May be repeated.

ART 5740C Sculpture (3). Advanced sculpture for M.S. in Art Education students. May be repeated. Prerequisites: ART 4741C or equivalent, or permission of the instructor.

ART 5790C Ceramics (3). The graduate student will explore all aspects of expression in clay and glaze. Students will be expected to be mostly self-directed. Prerequisite: ART 4785C, or permission of the instructor. May be repeated.

ART 5792C Figure Sculpture (3). Advanced figure sculpture for M.S. in Art Education students. May be repeated. Prerequisite: Figure Sculpture IV ART 4716C or permission of the instructor.

ART 5813C Graduate Installation Art (3). This topic course will explore the genre of installation and site-specific art through history and in terms of its ongoing influence on contemporary visual culture. MFA students will be required to develop slide lectures in conjunction with installation. Prerequisites: Permission of Instructor.

ART 5907C Directed Study (VAR). A group of graduate students, with the approval of the Art Department faculty, may select a master artist teacher and pursue a course of art study in selected areas such as graphic design, film, multi-media, environmental design, sound, etc. Arrangements must be made at least one semester before course is offered. May be repeated.

ART 5910C Research (1-6). Graduate students may study or research an individual art project with an art faculty member. Complexity and amount of work will determine the number of credit hours granted. May be repeated.

ART 5930C Special Topics in Studio Art (3). Rotating special topics in Studio Arts. May be repeated with change of content.

ART 5938C Studio Art Pedagogy (1). Instruction in the principles and methods of teaching in the area of visual arts; specifically the application of these principles to the studio situation. Prerequisite: Graduate standing.

ART 5939C Studio Art Seminar (3). Graduate students will locate and discuss their own work within the context of the contemporary art world. Also, issues and practical concerns for the professional artist will be addressed, such as dealing with galleries, grant writing and business procedures. Prerequisite: Issues of Contemporary Art Seminar.

PGY 2110C Color Photography I (3). An introduction to color materials and processing. Frequent critiques of students' work. Prerequisites: PGY 4420C or permission of the instructor.

PGY 3311C Color Photography II & III (3). Intermediate color photography requiring refinement of technique and personal vision. Frequent critiques. Prerequisite: PGY 2110C.

PGY 2401C Photography I (3). Introduction to the practice of still photography. Includes darkroom work and camera skills. Frequent critiques of student work.

PGY 3410C Photography II & III (3). Intermediate photography requiring refinement of technical skills and personal vision. Frequent critiques. Prerequisite: PGY 2401C.

PGY 4112C Color Photography IV, V, & VI (3). Advanced color photography with an expectation of highly skilled technical and carefully evolved concerns that may continue in subsequent semesters. Prerequisite: PGY 3311C.

PGY 4420C Photography IV, V, & VI (3). Advanced photography with the expectation of highly skilled technique and a carefully evolved project that might continue into subsequent semesters. Prerequisite: PGY 3410C.

PGY 4440C Collaboration in Photography (3). An advanced photography course for majors and accomplished
non-majors. Includes introduction to collaborative genres, slide/lectures, demonstrations, field work and intensive critique of student's work. Prerequisite: PGY 3410C and PGY 4420C.

PGY 5114C Color Photography (3). Advanced color photography for MS in Art Education students. (See PGY 4113). Prerequisite: PGY 4113C.

PGY 5425C Photography (3). Advanced photography for M.S. in Art Education students. May be repeated. Prerequisite: PGY 4003C, or equivalent, or permission of the instructor.
Asian Studies

Steven Heine, Director, Religious Studies and History
Affiliated Faculty:
David Chang, Education
Krishnan Dandapani, Finance, Alan Gummerson, Economics
Asuka Haraguchi, Modern Languages
Nathan Katz, Religious Studies
Paul Kowert, International Relations
Mohiaddin Mesbahi, International Relations
William Walker III, History
Maida Watson, Modern Languages

Bachelor of Arts in Asian Studies

The B.A. degree in Asian Studies is an interdisciplinary program that draws on faculty from the College of Arts and Sciences and other professional schools at FIU, and must be taken as a second major. The courses are coordinated by the Institute for Asian Studies, which also sponsors workshops, lectures, cultural events, and study abroad programs.

Like the certificate program in Asian Studies, the bachelor’s program provides students with a rich learning experience about a fascinating and increasingly important region of the world, and is intended to enhance the student’s competitiveness upon graduation. The program provides a multidisciplinary approach covering the philosophy, religion, art history, language and literature of Asia as well as issues in history, politics, geography, sociology/anthropology, and international relations.

The B.A. has two concentrations:

International Political Economy of Asia, which emphasizes social scientific studies involving economics, international relations, politics, and sociology; and Asian Cultural Studies, which emphasizes the humanities and arts disciplinary approaches.

For further information please contact the Institute for Asian Studies, located at DM 366A, at asian@fiu.edu or at (305) 348-1914. Also, visit our website at www.fiu.edu/asi.

Lower Division Preparation
To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST or its equivalent, completed 60 semester hours, and be otherwise acceptable into the program.

Upper Division Program
The Major requires 30 hours of upper division course work. Students who elect a major in Asian Studies are required to declare a major in another department or discipline, and should consult with the advisors of both majors on regular basis prior to graduation.

Upper Division Requirements (both concentrations)

Language Requirements (3 credits)
Intermediate level of Chinese or Japanese (If a student tests out of the language courses, they must fulfill the requirements with additional course work. Other languages may be substituted)

Core Courses (27 credits)
1. 18 credits from the courses listed below, pertaining to the main concentration. (9 credits allowed in comparative courses)
2. 6 credits in the other concentration or in advanced language courses
3. 3 credits in a supervised research course (ASN 4000-level) or equivalent

Students may receive credits through Study Abroad courses or an Internship program.

International Political Economy of Asia Concentration Electives:

CHI 3xxx Chinese for Business
CPO 3502 Politics of the Far East
CPO 4507 Comparative Political Economy of Asia
CPO 4541 Politics of China
CPO 4553 Government Politics of Japan
ECS 3003 Comparative Economic Systems
ECS 3704 International Economics
ECO 4701 World Economy
ECO 4703 International Trade
ECS 3200 Theory and Policy
ECS 3200 Economics of Asia
FIN 3652 Asian Financial Markets and Institutions
INR 3081 Contemporary Problems
INR 3223 Japan and the US
INR 3224 International Relations of East Asia
INR 3226 International Relations of Central Asia and the Caucas
INR 3232 International Relations

Asian Cultural Studies Concentration Electives:

AMH 4544 The United States and the Vietnam War
AMH 4xxx US Foreign Relations
AML 4xxx American Writers and the Orient
ARC 4754 Asian and African Architecture
ARC 4xxx Cities of Asia
ARH 4552 Art of China and Japan
ASN 4510 Dynamics of Asia
COM 3410 Cultural Communication-Patterns of Asia
DAN 4136 Global Perspectives in Dance and Culture I
DAN 4137 Global Perspectives in Dance and Culture II
DAN 4xxx Yoga in Arts and Performance
EDF 4xxx Arts and Education in China
EDF 3xxx Education in Japan
EVR 3402 Asian Environmental Issues
JPN 3xxx Japanese Culture and Calligraphy
LIN 4xxx Bilingualism and Language Policy
MUH 3052 Music of the World
MUH 4xxx Music of Asia
PET 3xxx Intro to Martial Arts
PET 4xxx Comp Analysis of Japanese Martial Arts
PHH 3810 Philosophy of
Course Descriptions

ASN 4510 Dynamics of Asia (3). An interdisciplinary study of the classical and contemporary periods in Asian civilizations, including tradition and modernization, culture and the arts, gender and diversity, and international relations.
Biological Sciences

John Makemson, Professor and Chairperson
James Allen, Assistant Professor
Victor Apanius, Assistant Professor
Brad Bennett, Associate Professor
Charles Bigger, Associate Professor
Christopher Brown, Professor, Associate Chairperson and Marine Biology Program Director
Richard Campbell, Research Scientist
Chun-fan Chen, Associate Professor
Dan Childers, Associate Professor
Tim Collins, Assistant Professor
Keith Condon, Lecturer
Leon A. Cuervo, Professor
Maureen Donnelly, Associate Professor
Kelsey Downum, Professor and Associate Dean for Research
James Fourquarean, Associate Professor
Javier Francisco-Ortega, Assistant Professor
Evelyn Gaiser, Assistant Professor
Robert M. George, Lecturer
Walter M. Goldberg, Professor and Associate Chairperson
Jack B. Fisher, Research Scientist
Rene J. Herrera, Associate Professor
Frank Jochem, Assistant Professor
Ronald D. Jones, Professor and Director, Southeastern Environmental Research Center
Christopher Kernan, Research Scientist
Suzanne Koptur, Professor
Lidia Kos, Assistant Professor
David N. Kuhn, Associate Professor
David W. Lee, Professor
Kalai Mathee, Assistant Professor
Steven F. Oberbauer, Professor
Case K. Okubo, Associate Professor and Undergraduate Program Director
Tom Philippi, Assistant Professor
Thomas R. Pitzer, Instructor and Teaching Assistant Coordinator
Thomas E. Piske, Lecturer
Jennifer Richards, Professor
Laurie L. Richardson, Associate Professor
Barbra A. Roller, Lecturer
Philip Stoddard, Associate Professor
Martin L. Tracey, Professor
Joel Trexler, Associate Professor, Graduate Program Director
Ophelia I. Weeks, Associate Professor
Scott Zona, Research Scientist

Bachelor of Science in Biology

Degree Program Hours: 120

Courses Required for the Degree

Lower Division Program

Common Prerequisites
A grade of "C" or better required.

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<th>Course</th>
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<tr>
<td>BSC 1011</td>
<td>General Biology II</td>
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<tr>
<td>BSC 1011L</td>
<td>General Biology II Lab</td>
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<tr>
<td>CHM 1045</td>
<td>General Chem I</td>
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<td>CHM 1045L</td>
<td>General Chem I Lab</td>
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<td>CHM 1046</td>
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<td>CHM 1046L</td>
<td>General Chem II Lab</td>
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<td>CHM 2210</td>
<td>Organic Chem I</td>
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<tr>
<td>CHM 2210L</td>
<td>Organic Chem I Lab</td>
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<tr>
<td>CHM 2211</td>
<td>Organic Chem II</td>
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<td>CHM 2211L</td>
<td>Organic Chem II Lab</td>
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<td>PHY 2048</td>
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<td>PHY 2048L</td>
<td>General Physics Lab I, II</td>
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<td>PHY 2049</td>
<td>Physics with Calculus I, II</td>
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<td>PHY 2049L</td>
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<tr>
<td>STA 2122</td>
<td>Intro to Statistics I</td>
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<tr>
<td>STA 3123</td>
<td>Intro to Statistics II</td>
</tr>
</tbody>
</table>

1 Organic chemistry sequence or physics sequence must be taken at the Lower Division.
2 Physics without Calculus I and II and corresponding labs can be substituted (PHY 2033 and PHY 2054).
3 Calculus I and Calculus II must be taken in the Lower Division. If Statistics I is taken, it must be taken in the Lower Division. Calculus I and Statistics I alone are not sufficient to meet the requirements for the degree.

To qualify for admission to the department, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable to the department.

Upper Division Program

Required Courses
1. PCB 3043 Ecology 3
2. PCB 3063 Genetics 3
3. BCH 3033 General Biochem 4
4. PCB 4674 Evolution 3
5. BSC 4031 Undergraduate Seminar 1

6. Distribution Requirement 12
   One additional lecture course in each of the following areas:
   - A. Ecology
   - B. Organismal Diversity
   - C. Physiology/Biochem
   - D. Structure/Development

If a course satisfies this distribution requirement, the letter of the area that it satisfies is in brackets after the course description.
7. Biology Electives 1 2 lecture courses 6
8. Laboratory Requirement 2 4 Labs 9
9. Electives outside major 9
10. A minimum of 48 credits must be earned in Upper Division courses.

Two upper division lecture courses (3000-level and above) to be chosen in consultation with a faculty advisor. The following courses are not allowed as Biology Electives: Student Research Labs (BSC 3913, 4914, and 6916); Cooperative Education credits (BSC 3949 and 4949); Physiology of Aging (PCB 3241); and courses for non-science majors (BOT 1010, PCB 2700 and MCB 2000, BSC 2023, EVR 3013, and PCB 2003).

Laboratory requirement is met with any four upper division Biology labs offered with the required courses, courses that meet the distribution or Biology elective requirements.

Students interested in teacher certification should contact the College of Education at 348-2768.

Special Programs

Bachelor of Science in Marine Biology

Admission to the Program

Students wishing to pursue the BS in Marine Biology must meet the same entry requirements as identified for admission to the BS in Biological Sciences.

Marine Biology Program activities and upper-division coursework will be concentrated at the Biscayne Bay Campus, although course requirements may be met elsewhere at FIU.

Continuity in academic advisement is an objective in this specialized degree program. Each student
enrolling in the BS Marine Biology Program must select or will assigned a faculty mentor. Biological Sciences faculty are eligible to serve as mentors in the Marine Biology Program.

Courses Required for the Degree

Lower Division Program
The lower Division component of the Marine Biology Bachelor of Science is identical to that of the BS in Biological Sciences, in which common prerequisites in Biological Sciences, Chemistry, Physics, Calculus, and Statistics must be met. All requirements for completion of the lower division in Biological Sciences apply to the BS in Marine Biology, in including the grade of ‘C’ or better in required courses, the lower division physics, calculus, and statistics requirements, options, and acceptable substitutions.

Upper Division Program
The upper-division requirements for the BS in Marine Biology include a selection of five common requirements and a choice of four marine electives, including selections from among the physical sciences. The Biological Sciences Distribution Requirement does not apply to the BS in Marine Biology.

Common Requirements
- PCB 3043  Ecology  3
- PCB 3063  Genetics  3
- BCH 3033  Biochemistry  4
- OCB 3043  Marine Biology and Oceanography  3
- BSC 4931  Undergraduate Seminar  1

Upper-Division Electives
Students are required to choose four from among the following 8 upper-division Marine electives:
- PCB 4674  Evolution  3
- ZOO 5456  Ichthyology  3
- OCB 3264  Coral Reef Biology  3
- BOT 5647  Ecology of Marine Vascular Plants  3
- PCB 4724  Comparative Physiology  3
- BOT 4404  Phycology  3
- OCE 3014  Oceanography  3
- GLY 4730  Marine Geology  3

Bachelor of Science with Honors

Admission to the Program
a. Permission of the department. Application should be made by letter to the Curriculum Committee from the applicant after completion of two semesters at the University and prior to two semesters before graduation. The letter should state the intended research problem and be countersigned by the Thesis Committee (advisors in residence).

b. A minimum GPA of 3.5 in biology, chemistry, physics, geology, and mathematics courses.

Graduation Requirements
a. A minimum GPA of 3.5 in biology, chemistry, physics, geology, and mathematics courses.

b. Completion of the BS requirements in Biology and Honors Research Lab (BSC 4915L, 1 to 3 credits, and Honors Thesis (BSC 4970, 3 credits).

c. Completion of Honors research in collaboration with a two-person Honors Committee, consisting of the honors advisor and one other member. The honors advisor must be a tenured or tenure-earning member of the department. The research results must be written in the form of an honors thesis and approved by the Honors Committee.

d. Deposit two completed approved copies of the Honors Thesis with the Department’s Office: one copy to be kept in the department and the other to be deposited in the Library.

e. Presentation of the results of the Honors Research in a departmental seminar.

Minor in Biology

Required Courses
BSC 1010 and BSC 1011 with labs, and one upper division course (3000-level or above) in three of the following areas: 1. Ecology, 2. Organismal Diversity, 3. Physiology/Biochemistry, or 4. Structure/Development. One of these elective courses must be at the 4000-level or higher and one must include a lab. Total upper division biology credits must number 10 or more. Grades of ‘C’ or better are required for all courses and labs. The following courses do not count as electives: Student Research Labs (BSC 3915, 4919, and 6916), Cooperative Education credits (BSC 3949 and 4949), Biology of Aging (PCB 3241), and any course for non-science majors (e.g., BOT 1010, PCB 2700, MCB 2000, BSC 2023, EVR 3013, and OCB 2003).

Pre-Medical, Dental, Optometry, and Veterinary Curricula
Students who have fulfilled the requirements for the BS in Biology will also have satisfied the course requirements for admission to the above mentioned professional schools. Some professional schools may have additional course requirements. Interested students should consult a Pre-Medical Advisor for arranging a curriculum to enhance their potential to gain admission.

Accelerated Combined Degree Programs

Seven-Year Programs for BS/DO, BS/DPM and BS/DMD
1. BS in Biology/DO (Bachelor of Science in Biology-Floridia University/Doctor of Osteopathy-College of Osteopathic Medicine, Southeastern University of the Health Sciences).

2. BS in Biology/DPM (Bachelor of Science in Biology-Floridia University/Doctor of Podiatric Medicine-Southern College of Podiatric Medicine, Barry University).

3. BS in Biology/DMD (Bachelor of Science in Biology-Floridia University/Doctor of Dental Medicine-College of Dentistry, University of Florida).

The Department of Biological Sciences at Florida International University and the College of Osteopathic Medicine, Southeastern University, the School of Podiatric Medicine, Barry University and the College of Dentistry, University of Florida offer combined degree programs designed to integrate the undergraduate and the medical curricula in seven years instead of the traditional eight years, while maintaining the quality of both the undergraduate and the medical education. The accepted qualified students are admitted to the FIU Biology Program and receive provisional early acceptance to the medical program at the time they are entering FIU. These programs give the students the opportunity to concentrate on a comprehensive undergraduate liberal arts education around rigorous core and science curricula. During the first two years at FIU, students complete the general core courses and basic science requirements. The third academic year is spent in taking advanced courses to fulfill the requirements for the Bachelor of Science in Biology. After completing the third year curriculum at FIU, the students enter the medical program to receive the traditional four year medical education. Satisfactory completion of the basic medical science courses at the medical school will permit the students to earn 30 credit hours toward the BS
degree in Biology. For further information contact Dr. C. F. Chen at 348-3509.

Certificate Program in Tropical Commercial Botany
See section on certificate programs under College of Arts and Sciences.

Course Descriptions
Note: Laboratories should be taken concurrently with or subsequent to lectures. Students should register for each separately.

Definition of Prefixes
APB - Applied Biology; BCH - Biochemistry; Bot - Botany; BSC - Introductory Biology; MCB - Microbiology; OCB - Oceanography (Biological); PCB - Process Cell Biology; ZOO - Zoology.

APB 3XXX Introduction to Brewing Science (3). APB 3XXXL Introduction to Brewing Science Lab (1). A hands-on overview of the scientific principles and operation of craft breweries, commercial breweries, and microbrewery technology. Relevant chemical, biological and physical processes will be examined.

BCH 3033 General Biochemistry (4) BCH 3033L Biochemistry Lab (1). Chemistry of proteins, lipids, carbohydrates, and nucleic acids; principles of enzymology, metabolism, and bioenergetics. Prerequisite: Organic Chemistry CHM 2211 and General Biology I BSC 1010.

BCH 4034 General Biochemistry II (3). Protein synthesis and structure, nucleic acid synthesis and structure, protein-protein and protein-nucleic acid interactions, membrane structure, signal transduction, and metabolic regulation. Prerequisite: General Biochemistry BCH 3033. [C]

BCH 5134C Workshop in Chromatography Techniques (1). Workshop covers the theory and practice of chromatographic techniques to separate complex mixtures of biomolecules, including absorption, ion exchange, size exclusion and affinity chromatography. Prerequisite: Graduate status.

BCH 5280 Bioenergetics (3). The relationship of thermodynamics to living processes; energy transduction, enzymes in coupled systems. Prerequisite: Permission of the instructor. [C]

BCH 5411C Techniques in Molecular Evolution Research (5). Ribosomal genes from related organisms are amplified by polymerase chain reaction (PCR) and sequenced. Phylogenetic maps are made by computer from sequence data. Students may use material from their own research. Prerequisites: General Biochemistry BCH 3033 and Lab BCH 3033L, Molecular Biology PCB 4254 and Lab PCB 4524L or Graduate Status.

BOT 1010 Introductory Botany (3). BOT 1010L Introductory Botany Lab (1). A history of mankind’s study and use of plants, and a survey of plants of economic importance. Includes lab. No science prerequisite. (Lab fees assessed)

BOT 3014 Plant Life Histories (3). BOT 3014L Plant Life Histories Laboratory (1). Plant form, function, and reproduction: the lives of algae, fungi, bryophytes, ferns, gymnosperms, and flowering plants. This course is designed for majors and certificate students. Prerequisites: A course in General Biology or permission of the instructor. Corequisite: Concurrent registration in lecture and lab courses. [B]

BOT 3153 Local Flora (2). BOT 3153L Local Flora Lab (2). Introduction to the taxonomy and ecology of common native, cultivated, and exotic plant species in Southern Florida. Laboratory observation of the gross features of vascular plants and practice in the use of keys for identification. Basic ecology of principle plant communities of Southern Florida. Field trips. Prerequisites: Introductory Botany BOT 1010 or General Biology I BSC 1010. Corequisite: Concurrent registration in lecture and lab courses. [B]

BOT 3353 Morphology of Vascular Plants (3). BOT 3353L Morphology of Vascular Plants Lab (1). Origin and evolution of plants, especially vascular plants of tropical origin. Analysis of vascular plant anatomy and morphology, emphasizing the underlying principles of plant construction. Prerequisite: A course in General Biology or permission of the instructor. [D]

BOT 3434 Mycology (3) BOT 3434L Mycology Lab (1). An introduction to the taxonomy, genetics, and physiology of fungi with special emphasis on commercially important fungi and plant and animal pathogenic fungi. Prerequisites: General Biology I BSC 1010 General Biology II BSC 1011. [B]

BOT 3663 Tropical Botany (3) BOT 3663L Tropical Botany Lab (1). How environmental factors affect the distribution of vegetation, and the morphology and physiology of plants in the tropics. Emphasis on tropical plants of economic importance. Prerequisites: General Biology II BSC 1011 or equivalent. Corequisite: Concurrent registration in lecture and lab courses. [B]

BOT 3810 Economic Botany (3). The origins, domestication and uses of economically important plants. Prerequisites: General Biology I BSC 1010, Introductory Botany BOT 1010 or equivalent. [B]

BOT 4374 Plant Development (3). BOT 4374L Plant Development Lab (1). The development of vascular plants, with emphasis on experimental approaches to plant anatomy, morphology, and reproduction. Practical instruction in tissue and organ culture. Prerequisites: Plant Physiology BOT 4503 or permission of the instructor. [D]

BOT 4404 Phycology (3). BOT 4404L Phycology Lab (1). The biology of marine and freshwater algae, with an emphasis on structure, function, reproduction, classification, and ecology. [B]

BOT 4503 Plant Physiology (3) BOT 4503L Plant Physiology Lab (1). Plant growth and metabolism in relationship to environment. Physiology, nutrient relations, transport, and hormones in relation to plant development and function. Prerequisite: Organic Chemistry I CHM 2210. [C]

BOT 4684 Taxonomy of Tropical Plants (3). BOT 4684L Taxonomy of Tropical Plants Lab (1). Introduction to higher plant taxonomy, including nomenclature, modern systems of angiosperm classification, and angiosperm evolution. Emphasis on identification of tropical plant families and plants of economic importance. Prerequisite: Local Flora BOT 3153 or Tropical Botany BOT 3663 or permission of the instructor. [B]

BOT 5406 Algal Physiology (3). Physiology and metabolism of eukaryotic algae, including ecological aspects of the aquatic environment and algal roles in aquatic biogeochemical
BOT 5515 Biochemistry of Plant Natural Products (3). Aspects of primary and secondary plant metabolism will be covered including biosynthesis and degradation of natural products as well as their biological/pharmacological activity. Prerequisite: Organic Chemistry CHM 2211 or General Biochemistry BCH 3033. [C]

BOT 5575 Photobiology (3) BOT 5575L Photobiology Lab (1). The study of basic photochemical mechanisms as they occur in molecular biological processes such as photosynthesis, plant growth, animal vision, bioluminescence, and radiation damage. Prerequisite: Permission of the instructor. [C]

BOT 5602 The Functional Ecology of Tropical Plants (3). BOT 5602L The Functional Ecology of Tropical Plants Lab (1). The relationship of climate and soils to the distribution and function of the major plant groups of the tropical regions. Prerequisites: Two courses in botany or permission of the instructor. [A]

BOT 5605 Plant Ecology (3). BOT 5605L Plant Ecology Lab (1). In-depth study of plant ecology at 3 levels: individual, population, and community. Laboratory and field exercises will examine lecture topics. Prerequisite: Ecology PCB 3043 or permission of the instructor. Corequisite: Concurrent registration in lecture and lab courses. [A]

BOT 5615 Workshop: Seed Conservation (1). Covers practical issues of seed conservation of tropical plants: longevity curves, seed germination protocols and seed conservation procedures. Prerequisites: Graduate students or permission of instructor.

BOT 5647 Ecology of Marine Vascular Plants (3). Biology and ecology of seagrasses and mangroves, with an emphasis on South Florida and Caribbean species. Physiological ecology, population and community ecology, and ecosystem processes. Prerequisite: Permission of the instructor. [A]

BOT 5648 Workshop on Aquatic Plants (1). Biology and identification of aquatic plants. Prerequisites: Graduate status or permission of the instructor.

BOT 5682 Florida Plant Communities (3). Two-week field trip to many diverse plant communities of the state. Ecological and environmental factors influencing plant distribution will be examined, contrasting vegetation among sites. Prerequisites: General Biology II BSC 1011 and Ecology PCB 3043 or permission of the instructor. [A]

BOT 5725C Plant Systematics (3). Theory and methods of classification of vascular plants using phylogenetic principles. Covers the integration of morphological and molecular characters. Prerequisites: Graduate students or permission of instructor.

BOT 5727 Plant Genetics (3). Topics related to higher plants, including polyploid inheritance, self-incompatibility, cytoplasmic inheritance, mutable alleles, complex loci, genome analysis, recombination and mutagenesis. Prerequisites: General Biology I and II (BSC 1010 and 1011) and Genetics (PCB3063).

BOT 5728 Plant Molecular Systematics (2). DNA markers for phylogenetic analysis of vascular plants, including description of laboratory methods, computerized analytical techniques and evolutionary interpretation. Prerequisites: Graduate status or permission of instructor.

BOT 5728L Plant Molecular Systematics Laboratory (2). DNA markers for phylogenetic analysis of vascular plants, including description of laboratory methods, computerized analytical techniques and evolutionary interpretation. Prerequisites: Graduate status or permission of instructor.

BOT 5816 Ethnobotany (3). Review the use and management of plants by indigenous people. Discuss emerging theories in ethnobotany, examine the role of ethnobotany in conservation and resource utilization. Prerequisites: Economic Botany BOT 3810, Tropical Botany BOT 3663, Cultural Ecology ANT 3403, or permission of the instructor.

BOT 5816L Ethnobotany Workshop (1). Field methods in the study of plant use by traditional and modern societies. Examines botanical documentation, ethnological description and experimental design. Prerequisite: Graduate status or permission of the instructor.

BOT 5924 Workshop in Tropical Plant Families (3). An introduction to important spermatophyte families, including systematics, ecology, and conservation. Prerequisite: Permission of the instructor. [B]

BOT 5925 Workshop in the Biology of Southern Florida’s Native Trees (3). Distribution, floristic relationships, morphology, reproductive biology, taxonomy, and conservation of trees native to southern Florida. Prerequisites: Local Flora BOT 3153, Tropical Botany BOT 3663, or permission of the instructor. [B]

BOT 5928 Workshop on Grasses and Sedges of Southern Florida (1). The systematics, ecology, and identification of South Florida grasses and sedges. Prerequisite: Graduate status or permission of the instructor.

BSC 1010 General Biology I (3) BSC 1010L General Biology I Lab (1). Biomolecules, cells, energy flow, genetics, and physiology. Science background or Biology major recommended. (Lab fees assessed)

BSC 1011 General Biology II (3) BSC 1011L General Biology II Lab I (1). A survey of organismal biology with emphasis on botany and zoology. Science background or Biology major recommended. (Lab fees assessed)

BSC 2023 Human Biology (3) BSC 2023L Human Biology Lab I (1). Biological and general scientific principles governing human structure, function, health, and relationship to the planetary environment. For non-science majors. (Lab fees assessed)

BSC 3915, 4914 Student Research Lab I and II (1-12). Independent laboratory study in a project or projects of the student’s choice. Registration by consultation with instructor. May be repeated for additional credit.

BSC 3949, 4949 Cooperative Education in Biology (1-3). A student majoring in biological sciences may spend several terms employed in industry or government in a capacity relating to the major. Prerequisites: Permission of Co-op Education and major department.

BSC 3XXX Research in Tropical Ecosystems (3). Biology, Earth Sciences and Environmental Studies faculty describe research in marine and terrestrial ecosystems, geology,
conservation and education. Students discuss scientific ideas.

BSC 4303 Biogeography (3). Current issues concerning geographic distribution of plants and animals. Prerequisites: Ecology PCB 3043 and Evolution PCB 4674. [A]

BSC 4361 Biodiversity of Tropical Islands (3). Current issues on evolution, diversification and conservation of flora and fauna on tropical islands. Prerequisites: Genetics PCB 3063, Ecology PCB 3043, and Evolution PCB 4374. [A]

BSC 4422 Biotechnology: Applications in Industry, Agriculture and Medicine (3). Biological, biochemical, ecological, engineering, entrepreneurial, and ethical aspects of biotechnology in industry, agriculture, and medicine. [D]

BSC 4915L Honors Research (1-3). Laboratory and/or field study in consultation with an Honors Thesis advisor. Prerequisite: Admission into Honors in Biological Sciences Program.

BSC 4931 Undergraduate Seminar (1). An exploration of various research works in biological sciences. Oral presentation by the students required.

BSC 4934 Topics in Biology (1-3). An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum.

BSC 4970 Honors Thesis (3). Writing an Honors Thesis. Prerequisite: BSC 4915L.

BSC 4XXX Biodiversity in the Caribbean Basin (3). Current issues on Evolution, Conservation, and Diversification of Biodiversity in the Caribbean Basin. Prerequisites: BSC 1010, BSC 1011 General Biology I and II.

BSC 4XXX Environments of the Past (3). The biogeography, diversity and ecology of ancient life is combined with the study of sediments and stable isotopes to interpret environmental changes of the past at the local to global scale. Prerequisites: Permission of Instructor.

BSC 5302 Ecosystems of the Past (3). Analysis of local to global change in environments through time using faunal distributions, biodiversity, biogeography, physical and chemical properties of sediments, and stable isotopes. Prerequisite: Permission of the instructor.

BSC 5405C Environmental Instrumentation (3). Theory and techniques for measurement of environmental parameters of interest to field biologist. Prerequisite: Permission of the instructor. [C]

BSC 5406 Forensic Biology (3). Forensic applications of molecular biology including PCR, STR techniques and other laboratory methods and data interpretation. Prerequisite: Graduate status.

BSC 5926 Graduate Bioresource Workshop (1). This workshop is designed to introduce Biology graduate students to the various resources available for graduate teaching and research. Prerequisite: Graduate status.

BSC 5928 Workshop: Vertebrate Animal Research (1). Reviews the ethical, legal and practical guidelines for conducting research with live vertebrate animals. Required for students capturing, handling or collecting vertebrate animals in the course of research or teaching. Prerequisite: Graduate status or permission of the instructor.

BSC 5933 Current Topics in Tropical Biology (3). An intensive study of particular tropical biology topics not otherwise offered in the curriculum. Prerequisite: Permission of the instructor.

BSC 5936 Glaser Seminar: The Biology of Tomorrow (1). A series of lectures by an invited, internationally recognized authority in biological topics of current and future concern.

BSC 5XXX Workshop: Ecology of Shelled Protists (1). Sampling, preparation, and identification of diatoms and foraminifera from a freshwater to marine transect, and application of ecology to interpreting past ecosystems. Prerequisites: Permission of Instructor.

BSC 5XXX Workshop: Hyperspectral Remote Sensing in Biology (1). Basic understanding of principles, techniques and application of hyperspectral remote sensing of the Earth's natural environments. Prerequisites: Graduate status or permission of Instructor.

ENY 1004 General Entomology (3) ENY 1004L Entomology Lab (1). The morphology, systematics, physiology and ecology of the major insect orders, and introduction to basic field procedures. Prerequisite: General Biology II BSC 1011.

ENY 4060 Advanced Entomology (3).
ENY 4060L Advanced Entomology Laboratory (1). Explorations of the morphology, physiology, behavior and metabolism of insects in the context of their evolutionary, en-vironmental and economic significance. Prerequisite: General Biology I BSC 1010, General Biology II BSC 1011, or permission of the instructor. [B]

MCB 2000 Introductory Microbiology (3) MCB 2000L Introductory Micro Lab (1). Basic concepts of microbes as pathogens, food spoilage and fermentative organisms. Microbial relationships to immunology, sanitation, pollution and geochemical cycling. Not applicable for majors in Biological Sciences. (Lab fees assessed)

MCB 3010 General Microbiology (3) MCB 3010L General Microbiology Lab (2). Introduction to the principles and techniques of microbiology, genetics, taxonomy, biochemistry and ecology of microorganisms. Prerequisites: Organic Chemistry I CHM 2210 and Organic Chemistry II CHM 2211; and General Biology I BSC 1010 and General Biology II BSC 1011; or permission of the instructor. [B]

MCB 4203 Microbial Pathogenicity (3) MCB 4203L Microbial Path Lab (1). Host-parasite relationships: physiology of bacterial, fungal and viral pathogens emphasizing mechanisms of pathogenicity and the host response. Prerequisites: General Microbiology MCB 3010. [C]

MCB 4404 Microbial Physiology (3) MCB 4404L Microbial Physiology Lab (1). Introduction to the study of physiological and metabolic activities of microorganisms and processes that affect them. Prerequisite: General Microbiology MCB 3010 and Lab MCB 3010L. [C]

MCB 4603 Microbial Ecology (3) MCB 4603L Microbial Ecology Lab (1). Principles and applications of microbial interactions with the environment: physical, chemical, and biological. Prerequisite: General Microbiology MCB 3010 and Lab MCB 3010L. [A]

MCB 4653 Food Microbiology (3). MCB 4653L Food Microbiology Lab
(1) Public Health microbiology of water and sewage, microbiology of food preparation and spoilage; industrial aspects of microbiology. Prerequisite: General Microbiology MCB 3010 and Lab MCB 3010L. [A]

MCB 5114 Microbial Diversity (3). MCB 5114L Microbial Diversity Laboratory (1). Analysis of metabolic and morpho-logical diversity in bacteria in the context of bacterial systematics. Prerequisites: General Microbiology MCB 3010 and Lab MCB 3010L; additional course in microbiology or biochemistry. Corequisite: Concurrent registration in lecture and lab courses.

MCB 5315C Workshop: Prokaryotic Cloning (2). Description of molecular genetic methods for manipulation of prokaryotic DNA. Prerequisites: Genetics (PCB 3513) and Biochemistry (BCH 3033) or permission of instructor.

MCB 5405 Biology of Photosynthetic Bacteria (3), MCB 5405L Biology of Photosynthetic Bacteria Lab (1). Study of the physiology and ecology of photosynthetic bacteria, including Blue-green algae (cyanobacteria), purple and green bacteria, and Halobacteria. [A]

MCB 5453L Workshop: Prokaryotic Cell Signaling (1). Covers chemical signals used by prokaryotes for cell-to-cell communications. Prerequisites: MCB 3010 or permission of instructor.

MCB 5505 Virology (3) MCB 5505L Virology Lab (1). Principles and methods of study of bacterial, plant, and animal viruses. Molecular aspects of viral development, virus pathogens, and carcinogens. Prerequisites: General Biochemistry BCH 3033, Genetics PCB 3063, and Organic Chemistry I CHM 2210 and Organic Chemistry II CHM 2211. [C]

OCB 2003 Introductory Marine Biology (3) OCB 2003L Introductory Marine Biology Lab (1). A survey of marine biological environments and zones, including the relationship of the physical and chemical environment to the distribution of marine plants and animals. (Lab fees assessed)

OCB 3043 Marine Biology and Oceanography (3), OCB 3043L Marine Biology and Oceanography Laboratory (1). An ecological approach to the biology of organisms in the marine environment with an emphasis on zonation and adaptation to the physical environment. Intended for biology majors or other science majors. Prerequisites: General Biology I BSC 1010 and General Biology II BSC 1011. [A]

OCB 3264 Biology of Coral Reefs (3). Biology of reef animals and reef ecology: emphasis on Florida and Caribbean reefs. Classroom instruction and observation of coral reef and turtle grass communities. Prerequisites: General Biology II BSC 1011 and scuba certification. [A]


OCB 5670L Techniques in Biological Oceanography (1). A laboratory course designed to acquaint the student with biological sampling techniques at sea. Shipboard experience will be required as part of the course. Prerequisites: Previous course in marine biology and permission of the instructor.

PCB 2061 Introductory Genetics (3). PCB 2061L Introductory Genetics Lab (1). Principles of Mendelian and Molecular genetics with selected examples of applications such as genetic engineering and twin studies.

PCB 2099 Foundations of Human Physiology (3) PCB 2099L Foundations of Human Physiology Lab (1). Functional survey of the organ systems of the human body. Intended primarily for non-science majors. (Lab fees assessed)

PCB 3043 Ecology (3) PCB 3043L Ecology Lab (1). The basic principles governing the interaction of organism and environment. Trophic structure and energetics; species diversity, evolution of populations, biogeochemical cycles. Prerequisite: General Biology I BSC 1010 and General Biology II BSC 1011.

PCB 3063 Genetics (3) PCB 3063L Genetics Lab (1). Mendelian inheritance and introduction to molecular genetics. Prerequisites: General Biology I BSC 1010 and Organic Chemistry I CHM 2210.

PCB 3702 Intermediate Human Physiology (3) PCB 3702L Intermediate Human Physiology Lab (1). Functions of the human body and the physio-chemical mechanisms responsible for each organ's function. Prerequisite: General Biology I BSC 1010 or General Biology II BSC 1011. [C]

PCB 3703 Cell Physiology (3) PCB 3703L Cell Physiology Lab (1). Biochemical and biophysical principles of cell physiology: enzyme structure and function, energy transductions, electrical and chemical signals. Prerequisites: General Biology I and II with Labs BSC 1010, BSC 1010L, BSC 1011, BSC 1011L; General Chemistry I and II with Labs CHM 1045, CHM 1045L, CHM 1046, CHM 1046L; and Physics I with or without Calculus, Labs PHY 2048, PHY 2048L, PHY 2049, PHY 2049L (or PHY 2053, PHY 2054) and Organic Chemistry I and II with Labs CHM 2210, CHM 2210L, CHM 2211, CHM 2211L. [C]

PCB 3724 Physiology of Aging (3). Introductory treatment of the physiology of organ systems with emphasis on the decline in organ function with aging and on the resultant limitations in physiological performance.

PCB 3703 Human Physiology I (3) PCB 3703L Human Physiology I Lab (1). Basic facts and concepts relating to the physiology of cells and tissues, including muscle, and cardiovascular systems, with emphasis on regulatory mechanisms and abnormal physiology. Prerequisites: General Biology I and II with Labs BSC 1010, BSC 1010L, BSC 1011, BSC 1011L; General Chemistry I and II with Labs CHM 1045, CHM 1045L, CHM 1046, CHM 1046L; and Physics I with or without Calculus, Labs PHY 2048, PHY 2048L, PHY 2049, PHY 2049L (or PHY 2053, PHY 2054). [C]

PCB 3704 Human Physiology II (3) PCB 3704L Human Physiology II Lab (1). Physiology of respiratory, (3). Physiological processes studied gastrointestinal, excretory, endocrine and reproductive systems. Continuation of PCB 3703. Prerequisites: General Biology I and II with Labs BSC 1010, BSC 1010L, BSC 1011, BSC 1011L; General Chemistry I and II with Labs CHM 1045, CHM 1045L, CHM 1046, CHM 1046L; and Physics I and II with...
or without Calculus and Labs, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L (or PHY 2053, PHY 2054). [C]

PCB 3711 Physiological Mechanisms (3). Biophysical and biochemical perspective: Integrative aspects of physiology are de-emphasized to accomplish a detailed, but introductory coverage of mechanisms. [C]

PCB 4023 Cell Biology (4). A structural and molecular analysis of cell function. Prerequisite: Genetics PCB 3063. [C]

PCB 4232 The Biology of Acquired Immune Deficiency Syndrome (AIDS) (3). An overview of Acquired Immune Deficiency Syndrome (AIDS) from biomedical and psychosocial perspectives. Prerequisite: General Biology I BSC 1010, General Biology II BSC 1011, General Chemistry I CHM 1045 and General Chemistry II CHM 1046.

PCB 4233 Immunology (3) PCB 4233L Immunology Lab (1). Fundamentals of immunology including antibody structure, immunopathology, molecular recognition at cell surfaces and immunological aspects of cancer biology. Prerequisite: General Microbiology MCB 3010 or permission of the instructor. [C]

PCB 4253 Developmental Biology (3). Comprehensive survey of principles of development and critical analysis of methods used to study these problems. Prerequisites: Genetics PCB 3063 and Cell Physiology PCB 3203 or General Biochemistry BCH 3033. [D]

PCB 4301 Freshwater Ecology (3). PCB 4301L Freshwater Ecology Laboratory (2). Community-level analysis of marshes, lakes and rivers from theoretical and practical viewpoints, emphasizing quantitative description of community structure and function. Prerequisite: Ecology PCB 3043 or General Biology II BSC 1011 and permission of the instructor. [A]

PCB 4413 Advanced Genetics (3). Advanced level treatment of topics such as meiotic disjunction-uniparental disomy, transcription & splicing - differential splicing, polymorphisms, chromatin organization, horizontal gene transfer, etc. Prerequisite: Genetics PCB 3063. [C]

PCB 4524 Molecular Biology (3) PCB 4524L Molecular Biology Lab (1). Advanced nucleic acid and protein biochemistry: biosynthesis of macromolecules and molecular genetics. Prerequisite: Biochemistry BCH 3033 or Genetics PCB 3063 and Organic Chemistry I CHM 2210. [C]

PCB 4674 Evolution (3). A study of the synthetic theory of evolution, its historic and experimental justification and the mechanisms of natural selection. Prerequisites: Genetics PCB 3063 and Ecology PCB 3043, or permission of the instructor.

PCB 4723 Animal Physiology (3) PCB 4723L Animal Physiology Lab (1). Advanced study of physiological mechanisms employed by animals to maintain function of the organ systems and to interact with the environment. Prerequisites: Cell Physiology PCB 3203 or Biochemistry BCH 3033. [C]

PCB 4724 Comparative Physiology (3) Comparative Physiology Lab I (1). Regulation of the internal environment: osmotic gastrointestinal, metabolic, circulatory and respiratory physiology. Prerequisites: General Biology I BSC 1010 and II BSC 1011 and Organic Chemistry I CHM 2210. [C]

PCB 4733 Human Systemic Physiology I (3) PCB 4733L Human Systemic Physiology Lab (1). Selected topics in human physiology with emphasis on topics of clinical significance. Prerequisite: Introductory Human Physiology PCB 2099 or General Biology II BSC 1011 or General Chemistry I CHM 1045. [C]

PCB 4734 Human Systemic Physiology II (3). Selected topics in human physiology with emphasis on topics of clinical significance. Prerequisite: Introductory Human Physiology PCB 2099 or General Biology II BSC 1011 or General Chemistry I CHM 1045. [C]

PCB 4806 Endocrinology (3). Biochemistry, physiology and anatomy of the endocrine systems of vertebrates and invertebrates. Stress hormones, reproduction, growth, and other parameters. Prerequisite: General Biology II BSC 1011, Organic Chemistry II CHM 2211, and one physiology course. [C]

PCB 5025L Molecular Biology Techniques Laboratory (3). Covers DNA and RNA extraction, digestion, electrophoresis, Southern analysis, RFLP analysis, PCR amplification, cloning and automated sequencing.

PCB 5184 Workshop in Micro-technique (1). Laboratory techniques required for preparation of tissues for light microscopy-histological study. Prerequisite: Graduate status or permission of instructor.

PCB 5195 Histochemistry/Micro-technique (3) PCB 5195L Histochemistry/Microtechnique Lab (1). Chemistry and use of fixatives and dyes; histochemistry emphasizes procedures used in research and pathohlogy labs including techniques for enzymes, protein, carbohydrate, nucleic acids and lipids. Prerequisite: General Biochemistry BCH 3033 or Cell Physiology PCB 3203.

PCB 5215 Workshop in Histo-and Immunocyto-Chemistry (1). Laboratory techniques for preparation of paraffin-embedded and frozen sections; selected procedures to demonstrate the fundamentals of histochemical and immunocytochemical labeling methods. Prerequisite: PCB 4233 or Permission of Instructor.

PCB 5238 Marine Comparative Immunology Workshop (1). A workshop at the Keys Marine Lab to present general and unique research methodologies associated with the immunology of marine animals. Prerequisite: Permission of the instructor.

PCB 5259 Topics in Developmental Biology (3). Molecular and cellular mechanisms in the development of plants and animals. Prerequisite: Permission of the instructor. [D]

PCB 5307 Limnology (3) PCB 5307L Limnology Lab (1). Chemical and physical properties of standing and flowing freshwater systems; ecophysiology and interactions of the fresh water flora and fauna in relation to abiotic factors; oligotrophic to eutrophic conditions. [A]

PCB 5325 Current Topics in Comparative Immunology (1). A weekly seminar/discussion course consisting of research presentations by
students, faculty and visiting scientists in the area of comparative immunology. It is recommended for students with a research interest in the comparative study of mammalian and nonmammalian species or using alternative animal models. Prerequisite: Permission of Instructor.

PCB 5327 Coastal Ecosystems and Modeling (3). Basics of ecology for coastal and wetland ecosystems. The theory and mechanisms of simulation modeling. Hands-on creation and application of computer models in ecological research. Prerequisites: Ecology PCB 3043 and Calculus I MAC 2311 or permission of the instructor. [A]


PCB 5356L Tropical Ecology Field Lab (3). Field course in Costa Rica with fieldwork in two or more diverse habitats (rainforest, and dry forest). Emphasis on diversity and interactions between species. Visits to selected sites of deforestation, conservation and restoration. [A]

PCB 5358 Everglades Research and Resources Management (3). Application of basic skills in ecology to contemporary issues in the Everglades area, with emphasis on the relation between research and management of wilderness, wildlife, vegetation, water and fire. Prerequisite: Ecology PCB 3043 or permission of the instructor. [A]

PCB 5376 Animal Physiological Ecology (3). PCB 5376L Animal Physiological Ecology Laboratory (1). Evolution-oriented approach to physiological adaptations of animals living in diverse environments. Considers the inter relationship between behavior, energetics, and integrative regulation of metabolism. Prerequisite: Ecology PCB 3043 and Biochemistry BCH 3033. [C]

PCB 5405 Biochemical Ecology (3). Principles of chemical communication between diverse organisms and the importance of a variety of allelochemicals in community structure. Prerequisite: Permission of the instructor.

PCB 5407 Workshop: Microelectrodes in Microbial Ecology (1). Use of Microelectrodes to measure chemical microenvironents and biological processes in natural samples. Hands-on experience with O2 and pH electrodes. Prerequisite: Permission of the instructor.

PCB 5423 Advanced Ecology: Populations and Communities (3). Advanced analysis of population and community ecology. Prerequisites: Ecology PCB 3043 or permission of the instructor or graduate status. [A]

PCB 5443 Advanced Ecology: Communities and Ecosystems (3). Advanced analysis of ecological principles pertaining to communities, ecosystems, and landscapes, with special emphasis on the South Florida and Caribbean region. Prerequisites: Ecology PCB 3043 or permission of the instructor or graduate status. [A]

PCB 5596 Workshop: In Situ Hybridization (1). Analysis of gene expression by in situ hybridization techniques using whole mount and cryosectioned tissues. Prerequisite: Graduate status or permission of the instructor.

PCB 5615 Molecular and Organismal Evolution (3). The evolutionary relationships among nucleotides and proteins as well as the processes which yield these relationships. The possible molecular events leading to speciation. Prerequisites: Genetics PCB 3063 and Biochemistry BCH 3033.

PCB 5616 Applied Phylogenetics (3). Methods of phylogenetic analysis with focus on pragmatic applications to ecological and evolutionary studies. Hands-on experience with current computer programs for phylogenetic analysis. Prerequisite: Graduate status or permission of the instructor.

PCB 5665 Human Genetics (3). Principles and techniques in the analysis of the human race. Prerequisite: Genetics PCB 3063.

PCB 5677 Evolution and Development (3). The models and evidence for the interaction of development and evolution, using both plant and animal systems. Prerequisite: Permission of the instructor.
ZOO 2203C Invertebrate Zoology (4). Taxonomy, anatomy, development, physiology and ecology of major invertebrate groups, including terrestrial and aquatic phyla. Prerequisite: General Biology I BSC 1011. [B]

ZOO 2713C Comparative Vertebrate Anatomy (4). Study of the structural diversity and classification of vertebrates and the evolution of various organ systems. Dissection of a variety of vertebrate specimens to reveal relationships of the various organ systems. Prerequisite: General Biology I BSC 1010 and General Biology II BSC 1011. [D]

ZOO 3021 Comparative Zoology (3) ZOO 3021 Comparative Zoology Lab (1). Characteristics, evolutionary relationships and physiological adaptations of metazoan animal groups from porifera through the chordates. Prerequisites: General Biology I BSC 1010 and II BSC 1011 with Labs BSC 1010L and BSC 1011L.

ZOO 3303 Vertebrate Zoology (3) ZOO 3303L Vertebrate Zoology Lab (1). Systematics, anatomy, physiology, development and ecology of vertebrate animals. Prerequisites: General Biology I BSC 1010 and II BSC 1011 with Labs BSC 1010L and BSC 1011L. [B]

ZOO 3603 Embryology (3) ZOO 3603L Embryology Lab (1). Animal morphogenesis. Laboratory must be taken with lecture. Prerequisites: General Biology I BSC 1010 and II BSC 1011 with Labs BSC 1010L and BSC 1011L. [D]

ZOO 3720 Human Evolutionary Morphology (3). The major evolutionary adaptations that have led to the unique bio-cultural characteristics of the human species. Prerequisites: General Biology II BSC 1011, Introduction to Anthropology ANT 2000, or permission of the instructor. [D]

ZOO 3731 Human Anatomy (3) ZOO 3731L Human Anatomy Demonstration (1). Survey of organ systems of the human body with major emphasis on the skeletal, muscular, and peripheral nervous system. Guided examination of dissected human cadavers. Prerequisites: General Chemistry I CHM 1045, General Physics I PHY 2053 or PHY 2048 and General Biology II BSC 1011. [D]

ZOO 3753 Histology (3) ZOO 3753L Histology Lab (1). Microscopic anatomy of cells, tissues and organs. Prerequisites: General Biology II BSC 1011 and Organic Chemistry I CHM 2210 and Organic Chemistry II CHM 2211. [D]

ZOO 3892C Biology of Captive Wildlife (3). Behavior, nutrition, physiology, anatomy, pathology and diseases of captive wildlife. Taught at Metrozoo. Prerequisite: General Biology II BSC 1011 or permission of the instructor. [B]

ZOO 4234 General Parasitology (3) ZOO 4234L General Parasitology Lab (1). Modern concepts of biology, development, immunology and pathology of animal parasites. Prerequisite: General Biology I BSC 1010. Corequisite: Concurrent registration of lecture and lab course. [B]

ZOO 4377 Advanced Vertebrate Morphology (3) ZOO 4377L Advanced Vertebrate Morphology Lab (1). The study of the diversity of anatomical structure in vertebrates and the relationship between form and function. Prerequisites: General Biology I BSC 1010 with lab BSC 1010L, General Biology II BSC 1011 with lab BSC 1011L, or permission of the instructor. [D]

ZOO 4462C Herpetology (4). Study of the biology of reptiles and amphibians with emphasis on the natural history and ecology of local species. Prerequisites: General Biology I BSC 1010 and II BSC 1011 and Ecology PCB 3043 or permission of the instructor. [B]

ZOO 4472 Ornithology (3) ZOO 4472L Ornithology Lab (2). Avian systematics, anatomy, physiology, behavior, ecology, evolution, and conservation. Labs teach visual and auditory identification, census techniques, banding, and tagging. Field trips alternate Saturdays and at least one overnight weekend field trip. Prerequisites: General Biology I BSC 1010 and II BSC 1011. Corequisite: Concurrent registration of lecture with lab course. [B]

ZOO 4484 Primate Biology (3) ZOO 4484L Primate Biology Field Lab (1). Survey of the natural history of the prosimians, monkeys, and apes with special emphasis on primate anatomy, evolution, ecology, and behavior. Prerequisites: General Biology I BSC 1010 and II BSC 1011 or permission of the instructor. [B]

ZOO 4513 Animal Behavior (3) ZOO 4513L Animal Behavior Laboratory (1). Evolutionary approach to understanding the diversity of behavioral strategies. Ecological and physiological mechanisms of behavior will be emphasized. Prerequisite: General Biology I BSC 1010 and II. BSC 1011. Lab: Three weekend day trips and one overnight weekend field trip. Corequisite: concurrent registration of lecture with lab course. [A]

ZOO 4733 Human Gross Anatomy I (3) ZOO 4733L Human Gross Anat I Lab (2). Structure and function of various tissues, organs and organ systems of the human body. Dissection of human cadaver material to reveal the relationships of the various organ systems of the body. Prerequisites: General Biology II BSC 1011 with lab BSC 1011L, General Chemistry II CHM 1046 with lab CHM 1046L, and Physics II PHY 2054. (Lab fees assessed) [D]

ZOO 4734 Human Gross Anatomy II (3) ZOO 4734L Human Gross Anat II Lab (2). Continuation of ZOO 4733. Prerequisites: General Biology II BSC 1011 with lab BSC 1011L and General Chemistry II CHM 1046 with lab CHM 1046L. [D]

ZOO 4743C Neuroscience (4). Structure and function of the human nervous system. Dissection and demonstration of human nervous system and various neurophysiology labs. Prerequisites: One course in physiology and one course in human anatomy. [D]

ZOO 5265 Biology of Crustaceans (3), ZOO 5265L Biology of Crustaceans Laboratory (1). Morphology, physiology, systematics and evolution in crustaceans. [B]

ZOO 5376 Animal Design and Movement (4). Basic biomechanical and behavioral theories of how animals feed and move. Prerequisites: General
Biology I BSC 1010, and II BSC 1011, Physics I PHY 2053 and II PHY 2054. [D]

ZOO 5424 Herpetology (3) ZOO 5424L. Herpetology Laboratory (1). Biology of amphibians and reptiles from a systematic perspective. The three orders of living amphibians and the six living orders of reptiles are covered in detail. Prerequisite: General Biology I BSC 1010 and II BSC 1011 and Ecology PCB 3043, or permission of the instructor. [B]

ZOO 5456 Ichthyology (3) ZOO 5456L. Ichthyology Laboratory (1). Systematics, structure, function, ecology, and evolution of fishes. Prerequisites: General Biology I BSC 1010 and II BSC 1011, and Ecology PCB 3043. Corequisite: Concurrent registration of lecture and lab course. [B]

ZOO 5479 Workshop in Field Ornithology: Mark and Recapture Methods (1). Instruction in techniques of banding wild birds, including their capture with mist nets, identification in the hand, and maintenance of federally required records. Prerequisites: Ornithology with Lab ZOO 4472 and ZOO 4472L or permission of the instructor.

ZOO 5732 Advanced Anatomy Demonstration (1-4). Dissection and demonstration of the human body with the emphasis on structure and function. May be repeated to a maximum of 8 credits. Prerequisite: Human Gross Anatomy I ZOO 4733 and II ZOO 4734 with Labs ZOO 4733L and ZOO 3744L or consent of instructor. [D]

ZOO 5745 Advanced Neuroanatomy (3). In-depth knowledge of the embryonic development, structure, and function of the human nervous system with a great deal of clinical consideration. Prerequisite: Neuroscience ZOO 4743C or permission of the instructor.

ZOO 5746 Comparative Neurobiology (4). Structure and function of neural systems at many levels including biophysical and cellular mechanisms, molecular processes, neural circuits, development, and anatomy. Prerequisite: General Biology I BSC 1010 and II BSC 1011, General Chemistry I CHM 1045 and II CHM 1046 and Physics PHY 2048; graduate standing or permission of the instructor. [C]
Chemistry

Gary G. Hoffman, Associate Professor and Chairperson
Jose Almarral, Assistant Professor
David Becker, Associate Professor
Yong Cai, Assistant Professor
David Chatfield, Associate Professor
Milagros Delgado, Lecturer
Kenneth G. Furton, Professor and Associate Dean
Piero R. Cardinale, Assistant Professor
A. Palmer Graves, Lecturer and Coordinator of General Chemistry Laboratories
Arthur W. Herriott, Professor and Dean
Rudolf Jaffe, Professor
Jeffrey A. Joens, Professor
Konstantinos Kavallieratos, Assistant Professor
Leonard S. Keller, Professor, Undergraduate Program Director and Coordinator of Organic Chemistry Laboratories
John T. Landrum, Professor
Fenfei Leng, Assistant Professor
Janet Lineback, Professor
Ramon Lopez de la Vega, Associate Professor
Zaida C. Morales-Martinez, Senior Lecturer and College Coordinator for Premedical Advising and College Coordinator for Science Student Recruitment and Retention
Kevin E. O'Shea, Associate Professor and Graduate Program Director
J. Martin Quirke, Professor
Kathleen Rein, Assistant Professor
Stephen Winkle, Associate Professor
Stanislaw F. Wnuk, Associate Professor

Bachelor of Science

Degree Program Hours: 120

The B.S. chemistry program is approved by the American Chemical Society and prepares the student for graduate study or a professional career as a chemist in industry, in government service, or in secondary school teaching. (Students interested in secondary teacher certification should contact the College of Education at 348-2721.)

Lower Division Preparation

Common Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHM 1045</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>

CHM 1045L General Chemistry Lab 1

CHM 1046 General Chemistry II 3

CHM 1046L General Chemistry II Lab 1

CHM 2210 Organic Chemistry I* 4

CHM 2210L Organic Chemistry I Lab* 1

CHM 2211 Organic Chemistry II* 3

CHM 2211L Organic Chemistry II Lab* 1

PHY 2048 Physics with Calculus I* 4

PHY 2048L Physics with Calculus I Lab* 1

PHY 2049 Physics with Calculus II* 4

PHY 2049L Physics with Calculus II Lab* 1

MAC 2311 Calculus I 4

MAC 2312 Calculus II 4

*Either the General Physics sequence or the Organic Chemistry Sequence must be taken at the lower division. Whichever is not taken must be taken before the degree is granted.

To qualify for acceptance into the upper division, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable to the program.

Upper Division Program: (60 total hours, 48 hours must be 3000 level and above)

Either the General Physics sequence or the Organic Chemistry sequence must be taken at the lower division. Whichever is not taken must be taken before the degree is granted. The following courses are required:

At least 37 credits in chemistry to include:

CHM 3120 Intro to Analytical Chemistry 3

CHM 3120L Intro to Analytical Chemistry Lab 1

CHM 3410 Physical Chemistry I 4

CHM 3410L Physical Chemistry I Lab 1

CHM 3411 Physical Chemistry II 4

CHM 3411L Physical Chemistry II Lab 2

CHM 4130 Instrumental Analysis 3

CHM 4130L Instrumental Analysis Lab 1

CHM 4220 Advanced Organic Chemistry 3

CHM 4304 Biological Chemistry I 3

CHM 4230L Structure Determination Laboratory 1 or

CHM 4304L Biological Chemistry I Lab 1

CHM 4610 Advanced Inorganic Chemistry 3

CHM 4610L Advanced Inorganic Chemistry Laboratory 1

CHM 4910L Undergraduate Research in Chemistry 3

CHM 4930 Senior Seminar 1

One additional senior-level (4000) Chemistry course * 3

At least three additional credits to be chosen from the following list:

MAP 2302 Differential Equations 3

CGS 2423 C for Engineers 3

MAC 2313 Multivariable Calculus 4

Students are required to take a nationally-normed chemistry examination in their last semester before graduation.

*CHM 4911L may not be used to satisfy this requirement.

Bachelor of Arts

Degree Program Hours: 120

This program is designed for students preparing for careers in medicine, pharmacy, dentistry, environmental studies, veterinary medicine, patent law, secondary science education, or criminalistics chemistry. Students should complement the basic curriculum with suitable electives chosen in consultation with an advisor. (Students interested in secondary teacher certification should contact the College of Education at 348-2721.)

Lower Division Preparation

Common Prerequisites

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<tbody>
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<td>General Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>

CHM 1045L General Chemistry Lab 1

CHM 1046 General Chemistry II 3

CHM 1046L General Chemistry II Lab 1

CHM 2210 Organic Chemistry I* 4

CHM 2210L Organic Chemistry I Lab* 1

CHM 2211 Organic Chemistry II* 3

CHM 2211L Organic Chemistry II Lab* 1

PHY 2048 Physics with Calculus I* 4

PHY 2048L Physics with Calculus I Lab* 1

PHY 2049 Physics with Calculus II* 4

PHY 2049L Physics with Calculus II Lab* 1

MAC 2311 Calculus I 4

MAC 2312 Calculus II 4

*Either the General Physics sequence or the Organic Chemistry sequence must be taken at the lower division.
Whichever is not taken must be taken before the degree is granted.

For the Bachelor of Arts degree, PHY 2053 and PHY 2054 may be substituted for PHY 2048 and PHY 2049.

Other Lower Division Courses 
Required for the Degree:

BSC 1010 General Biology I 3
BSC 1010L General Biology I Lab 1
BSC 1011 General Biology II 3
BSC 1011L General Biology II Lab 1

To qualify for acceptance into the upper division, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable to the program.

Upper Division Program: (60 total hours, 48 hours must be 3000 level and above)

Either the General Physics sequence or the Organic Chemistry sequence must be taken at the lower division.

Whichever is not taken must be taken before the degree is granted.

CHM 3120 Intro to Analytical Chemistry 3
CHM 3120L Intro to Analytical Chemistry Lab I
CHM 3400 Fundamentals of Physical Chemistry 3
CHM 3400L Fundamentals of Physical Chemistry Lab 1
CHM 4220 Advanced Organic Chemistry 3
CHM 4304 Biological Chemistry I 3
CHM 4230L Structure Determination Lab 1
or
CHM 4304L Biological Chemistry I Lab 1

And at least one additional senior level (4000) course in chemistry 3

Electives 41

Students are required to take a nationally-normed chemistry examination in their last semester before graduation.

Minor in Chemistry

The minor in Chemistry requires at least 21 credits in chemistry to include:

General Chemistry I & II (CHM 1045, 1045L, and 1046, 1046L) 8
Introduction to Analytical Chemistry (CHM 3120, 3120L) 4

Organic Chemistry I & II (CHM 2210, CHM 2210L, CHM 2211, CHM 2211L) 9

At least half of the credits to be counted towards the minor must be taken at the University.

Criminalistics-Chemistry Program

The Criminalistics-chemistry core requirements are the same as the requirements for the BA degree in chemistry plus Instrumental Analysis (CHM 4130, 4130L). (Degree granted by the Department of Chemistry.)

Internship

A 3-6 credit internship in the laboratory of a participating criminal justice agency.

Criminal Justice course work: The student should take nine credits of criminal justice courses in consultation with an advisor in the Department of Criminal Justice, 305-919-5850.

Electives

Course work in the behavioral and political sciences, and upper division course work in the biological sciences are recommended to total 60 semester hours.

Pre-Medical, Dentistry, Veterinary, Optometry Curricula

Students who have satisfied the requirements for either the BA or the BS degree in chemistry will also have satisfied the course requirements for admission to professional schools in the above areas. Additional course work in chemistry and biology relevant to the career objectives of the student may also be taken as electives. Interested students should consult the Pre-medical advisor at 305-348-3084.

Cooperative Education

Students seeking the baccalaureate degree in chemistry may also take part in the Cooperative Education Program conducted in conjunction with the Department of Cooperative Education in the Division of Student Affairs. The student spends one or two semesters fully employed in an industrial or governmental chemistry laboratory. For further information consult the Department of Chemistry or the Department of Cooperative Education at 305-348-2423.

Department Policy

The Department of Chemistry does not award credit for courses by examination; it does, however, award credit for AP Chemistry with a score of 3 or higher and with evidence of a suitable laboratory experience. The department does not award credit for life experience.

Course Descriptions

Note: Laboratories may not be taken prior to the corresponding course. Laboratories must be taken concurrently where noted. Students must register for the laboratory separately.

Definition of Prefixes

CHM-Chemistry; CHS-Chemistry-Specialized; ISC-Interdisciplinary Natural Sciences; OCC-Oceanography-Chemical.

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

CHM 1025 Fundamentals of Chemistry (2). Introduces students to basic mathematics required in chemistry, nature of matter, atomic structure, simple chemical reactions and stoichiometry.

CHM 1032 Chemistry and Society (3)
CHM 1032L Chemistry and Society Lab (1). A course for non-science majors which introduces students to basic concepts in chemistry and applies those concepts to contemporary issues such as air/water pollution, energy and food production, drugs, nutrition, and toxic chemicals. Prerequisite: One year of high school or college algebra. (Lab fees assessed) (F,SS)

CHM 1033 Survey of Chemistry (4)
CHM 1033L Survey of Chemistry Lab (1) General and organic chemistry for non-science majors only. Atoms and molecules, states of matter, equilibrium, kinetics, acids and bases and introduction to organic chemistry. Laboratory must be taken concurrently. Does not fulfill requirements for chemistry, biology or pre-med majors. Prerequisites: One year of high school or college algebra. (Lab fees assessed) (F)

CHM 1045 General Chemistry I (3)
CHM 1045L General Chemistry Lab I (1). Fundamental principles of general chemistry: states of matter, atomic structure, stoichiometry, chemical bonding, acid-base reactions, gas laws. Concurrent registration in
both lecture and laboratory is required. Prerequisite: Second year high school algebra or college algebra. (Lab fees assessed) (F,S,SS)

CHM 1046 General Chemistry II (3)
CHM 1046L General Chemistry Lab II (1). Continuation of General Chemistry I (CHM 1045). Fundamental principles of chemistry: thermodynamics, solutions, kinetics, equilibrium and electrochemistry. Concurrent registration in both lecture and laboratory is required. Prerequisites: CHM 1045 (with a "C" or better), CHM 1045L. (Lab fees assessed) (F,S,SS)

CHM 2200 Survey of Organic Chemistry (3) CHM 2200L Survey of Organic Chemistry Lab (1). A basic one-semester survey course in organic chemistry for non-majors presenting a broad background in the reactions and structures of organic molecules. Does not fulfill requirements for chemistry, biology, or pre-med majors. Laboratory must be taken concurrently with the course. Prerequisites: CHM 1032, CHM 1032L, CHM 1033, CHM 1033L, or CHM 1046, CHM 1046L. (Lab fees assessed) (S)

CHM 2210 Organic Chemistry I (4)
CHM 2210L Organic Chemistry Lab I (1). An introduction to chemical bonding and atomic structure theory as it pertains to the chemistry of carbon compounds. Correlation between structure and reactivity of organic molecules followed by a systematic look at the various reaction types using reaction mechanisms as a tool for study. Concurrent registration in both lecture and laboratory is required. Prerequisites: CHM 1046 (with a "C" or better), CHM 1046L. (Lab fees assessed) (F,S,SS)

CHM 2211 Organic Chemistry II (3)
CHM 2211L Organic Chemistry Lab II (1). Continuation of CHM 2210, 2210L. Concurrent registration in lecture and laboratory is required. Prerequisites: CHM 2210 (with a "C" or better), 2210L. (Lab fees assessed) (F,S,SS)

CHM 3120 Introduction to Analytical Chemistry (3) CHM 3120L. Introduction to Analytical Chemistry Lab (1). Fundamentals of classical quantitative analysis. Topics include theory of precipitation, acid-base and oxidation-reduction reactions, as well as an introduction to spectrophotometric methods of analysis, ion-exchange techniques and complex formation. Laboratory must be taken concurrently with the lecture. Prerequisites: CHM 1046, CHM 1046L. (F,S,SS)

CHM 3400 Fundamentals of Physical Chemistry (3). CHM 3400L Fundamentals of Physical Chemistry Lab (1). Principles of physical chemistry. Topics include thermodynamics, equilibria, electrochemistry, and reaction kinetics. Laboratory must be taken concurrently with the course. Prerequisites: MAC 2311, 2312; PHY 2048, 2048L PHY 2049, 2049L, or PHY 2053, 2048L, and 2054, 2049L, CHM 3120, 3120L. (S)

CHM 3410 Physical Chemistry I (4)
CHM 3410L Physical Chemistry Lab I (1). Principles of thermodynamics, gas laws, kinetic theory of gases, chemical equilibrium, electrochemistry, and kinetics. Laboratory to be taken concurrently with the course. Prerequisites: MAC 2311, 2312; PHY 2048, 2048L, PHY 2049, 2049L, and CHM 3120, 3120L. (F)

CHM 3411 Physical Chemistry II (4), CHM 3411L Physical Chemistry Lab II (2). Introduction to quantum mechanics. The Schrodinger equation and its application to rotational, vibrational, and electronic spectroscopy, atomic and molecular structure, and bonding. Prerequisites: CHM 3410, 3410L. (S)

CHM 3949, CHM 4949 Cooperative Education in Chemistry (1-3). One semester of fulltime supervised work in an outside laboratory. Limited to students admitted to the University Coop Program. A written report and supervisor evaluation will be required of each student. (F,S)

CHM 4090L Introduction to Scientific Glassblowing (1). Basic glassblowing operations with glass tubing and rod are taught. Emphasis is on making and repair of scientific glassware. No prerequisites.

CHM 4130 Instrumental Analysis (3) CHM 4130L Instrumental Analysis Lab (2). Instrumental methods of chemical analysis, including electroanalytical methods, gas and liquid chromatography, mass spectrometry, x-ray fluorescence, and spectrophotometric methods. Prerequisites: CHM 3120, 3120L, CHM 2211, 2211L, CHM 3410, PHY 2048, 2048L, PHY 2049, 2049L, or permission of the instructor. (S)

CHM 4220 Advanced Organic Chemistry (3). An intensive examination of the major areas of contemporary organic chemistry. Reactive intermediates, pericyclic reactions, molecular rearrangements, and modern synthetic methods are among the topics covered. Prerequisites: CHM 2211, 2211L. (F,S)

CHM 4230L Structure Determination Lab (1). The qualitative analysis of organic compounds using modern spectroscopic, chromatographic and chemical methods. Prerequisites: CHM 2211, and 2211L. (F,S,SS)

CHM 4300 Bio-Organic Chemistry (3). Chemistry of naturally-occurring organic compounds of biological importance. The relationship between organic chemistry and the chemical reactions which constitute the living organism. Prerequisite: CHM 2211, and 2211L.

CHM 4304 Biological Chemistry I (3). CHM 4304L Biological Chemistry I Lab (1). Structures and functions of nucleic acids and proteins and cellular processes such as metabolism, replication and transcription are examined from a chemistry perspective. Prerequisites: CHM 2211, CHM 3120, BSC 1011 or permission of the instructor. Corequisite: A semester of physical chemistry. (F,S)

CHM 4307 Biological Chemistry II (3). Continuation of Biological Chemistry I (CHM 4304). Further exploration of bioorganic reaction mechanisms. Chemistry DNA synthesis and repair. Chemistry of information transfer. Reactions of drugs. Prerequisite: Biological Chemistry I (CHM 4304). (S)

CHM 4320L Research Techniques in Organic Chemistry (2). Practical instruction in the more advanced manipulations and procedures of the modern chemistry laboratory. Restricted to B.S. chemistry majors. Prerequisites: CHM 3120, CHM 2211, CHM 2211L, CHM 3410, and CHM 3411L.

CHM 4321 Protein Chemistry (3). Structures of proteins and how they are determined. Protein-small molecule, protein-protein, protein-DNA, protein membrane interactions and their functions. Prerequisites: CHM 2211,
BSC 1011, a biochemistry course or permission of the instructor. Corequisite: CHM 3410 or permission of the instructor.

CHM 4610 Advanced Inorganic Chemistry (3). Atomic structure, periodicity, bonding and structure of inorganic compounds, solution chemistry, ligand field theory, organometallic chemistry, and specific chemistry of the elements. Prerequisites: CHM 3120, CHM 2211, and CHM 3411. (F)

CHM 4610L Advanced Inorganic Chemistry Lab (1). Synthesis, purification, and study of coordination and organometallic compounds. Corequisite: CHM 3411. Corequisite: CHM 4610. (F)

CHM 4910L Undergraduate Research in Chemistry (3). The student works directly with a professor on a research project. Credit is assigned based on 4 hr/wk laboratory/library work per credit hour. A written report is required. (F,S,SS)

CHM 4911L Undergraduate Research 2 (1-20). Faculty directed research in chemistry. Credit is assigned based on 4 hr/wk laboratory/library work per credit hour. May be repeated. Prerequisite: CHM 4910L. (F,S,SS)

CHM 4930 Senior Seminar (1). Each student will make an oral presentation to faculty and other students enrolled in the seminar course. The subject of the seminar may be either a report of results of an independent study project or a survey of the recent literature on an assigned topic. (F,S)

CHM 4931 Special Topics (3). Covers selected topics in chemistry. Prerequisite: Permission of the instructor.

CHM 4933 Special Topics (3). Covers selected topics in chemistry. Prerequisite: Permission of the instructor.

CHM 4934 Special Topics (3). Covers selected topics in chemistry. Permission of the instructor.

CHM 5138 Advanced Mass Spectrometry (3). Intensive examination of the processes and techniques involved in creating, controlling and measuring ionic species by mass spectrometry. Theory of mass spectrometry, methods of ionization, instrumental designs, quantitative mass spectrometry, meta-stable ions, and tandem mass spectrometry. Prerequisites: CHM 4130, CHM 4130L or Permission of Instructor.

CHM 5150 Graduate Analytical Methods (3). Analysis of analytical data, electrochemistry, spectroanalytical techniques, chromatography, survey of new analytical methods. Prerequisite: Graduate standing or permission of the instructor. (S)

CHM 5156 Advanced Chromatography (3). Intensive examination of the contemporary practice of chromatography including available chromatographic techniques, their selection and application. Prerequisite: CHM 4130 or permission of the instructor.

CHM 5181 Special Topics in Analytical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4130 or permission of the instructor.

CHM 5225 Graduate Organic Chemistry (3). Advanced topics in organic chemistry. Structure of organic molecules, reaction mechanisms, organic synthesis, and natural product chemistry. Prerequisite: Graduate standing or permission of the instructor. (F)

CHM 5236 Spectroscopic Techniques and Structures Elucidation (3). Advanced techniques for the spectroscopic identification of organic compounds. Interpretation of spectral information for determination of structures of various classes of organic compounds. Prerequisites: CHM 4220 and CHM 4230L.

CHM 5250 Organic Synthesis (3). Use of classical and modern reactions in the design and construction of complex organic molecules including natural products. Some topics covered will be construction reactions, refunctionalization, stereochemistry and conformational analysis. Prerequisite: CHM 4220 or permission of the instructor.

CHM 5260 Physical Organic Chemistry (3). A series of topics will be discussed including molecular orbital theory as it pertains to organic molecules, kinetic and thermodynamic approaches to the study of reaction mechanisms, quantitative approaches to conformational analysis, etc. Prerequisite: CHM 4220 and physical chemistry or permission of the instructor.

CHM 5280 Natural Products Chemistry and Biosynthesis (3). Studies of the chemical origins (biosynthesis), properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetonogens. Prerequisite: CHM 4220 or permission of the instructor.

CHM 5302 Organic Chemistry of Nucleic Acids (3). Organic chemistry of ribose sugars, nucleoside heterocyclic bases, mechanism-based inhibitors of enzymes involved in nucleic acid metabolism, and chemical synthesis of DNA. Prerequisite: CHM 4220 or permission of the instructor.

CHM 5306 Special Topics in Biological Chemistry (3). Investigation of one or more areas of biologically related chemistry. Prerequisites: CHM 4304 or permission of the instructor.

CHM 5325 Physical Chemistry of Proteins (3). Protein structures, dynamics and functions. Use of spectroscopic methods. Thermodynamics of protein folding and ligand binding. Enzyme Kinetics. Prerequisites: Biological Chemistry and Physical Chemistry or permission of instructor.

CHM 5351 Computer Modeling of Biological Molecules (3). Introduces use of computers in studying biological macromolecules. Simulations, visualization methods, software, databases. Prerequisite: CHM 3411, Biochemistry recommended.

CHM 5380 Special Topics in Organic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4220 and physical chemistry or permission of the instructor.

CHM 5423 Atmospheric Chemistry (3). Chemical processes in atmospheres. Photochemistry, chemical kinetics, tropospheric and stratospheric chemical reactions, anthropogenic effects on the earth's atmosphere and chemistry of planetary atmospheres. Prerequisite: CHM 3410, CHM 3411, or permission of the instructor.

CHM 5425 Graduate Physical Chemistry (4). Precise quantum physics, the Schrodinger equation and its solutions, atoms and molecules, rotational, vibrational, and electronic spectroscopy. Prerequisite: Graduate
standing or permission of the instructor.

CHM 5426 Graduate Physical Chemistry II (4). Gas laws; thermodynamics and equilibrium, electrochemistry, and chemical kinetics. Prerequisite: Graduate standing or permission of instructor.

CHM 5440 Kinetics and Catalysis (3). Theory of elementary reactions, activated complex theory, mechanisms of complex reactions. Prerequisites: CHM 3411, MAP 2302.

CHM 5490 Physical Spectroscopy (3). Introduction to atomic and molecular quantum states, selection rules, and fundamental principles of spectroscopy. Introduction to group theory and to the theory of UV/Visible, infrared, Raman, microwave, nmr, photoelectron, and mass spectroscopies, and the applications of these methods to the determination of fundamental physical properties and the structure of organic and inorganic molecules. Prerequisite: Physical Chemistry.

CHM 5490L Physical Spectroscopy Lab (1). The theory of spectroscopy and the use of modern instrumentation to investigate molecular structure. Prerequisites: CHM 2211, 2211L Corequisite: PHY 4604 or CHM 5490.

CHM 5503 Physical Chemistry of Nucleic Acids (3). Physical chemistry of nucleic acids including spectroscopic determination of structures of DNAs, RNAs, and DNA-protein complexes and thermodynamic and kinetic studies of nucleic acid-ligand complexes and nucleic acid structures. Prerequisite: CHM 4304 or permission of the instructor.

CHM 5506 Physical Biochemistry (3). Physical properties of biomolecules, molecular conformation; thermodynamic, kinetic, and spectroscopic properties of biomolecules. Prerequisites: CHM 4304 or permission of the instructor.

CHM 5517 Solid State (3). Crystalline form of solids, lattice dynamics, metals, insulators, semiconductors, and dielectric materials. Prerequisite: CHM 5490 or PHY 4604.

CHM 5540 Group Theory In Chemistry (3). The fundamental Theory is developed with emphasis given to Representations. Specific applications covered, with emphasis on molecular orbital theory and spectroscopy. Prerequisite: Undergraduate Physical Chemistry.

CHM 5581 Special Topics in Physical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 3411 or permission of the instructor.

CHM 5650 Physical Inorganic Chemistry (3). Introduction to use of physical methods to determine the structure of inorganic compounds. Prerequisite: CHM 4610 or permission of the instructor.

CHM 5681 Special Topics in Inorganic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisite: CHM 4610 or permission of the instructor.

CHM 5765 Aquatic Chemistry (3). Redox chemistry, chemistry of sediments, organic biogeochemistry, chemodynamics, and fates or organic pollutants in aqueous environments. Prerequisites: CHM 2211, CHM 4130, or permission of the instructor.

CHM 5931 Special Topics (3). A course covering selected special topics in chemistry.

CHM 5936 Special Topics in Environmental Chemistry (3). An intensive examination of one or more areas selected by the instructor and students. Prerequisite: Permission of the instructor.

CHM SXXX Forensic Chemistry (3). Advanced Analytical methods in Forensic Chemistry for application to the analysis of controlled substances, materials (i.e., paint, glass, and fibers), flammable and explosives residues with an emphasis on new methods and method development.

CHS 4100 Radiochemistry (2) CHS 4100L Radiochemical Techniques Lab (2). Production, isolation, methods of detection, counting statistics and estimation of radioisotopes. Applications to chemical, physical and biological problems. Laboratory must be taken concurrently with the course. Prerequisites: CHM 1045, 1046, 3120, 3120L; MAC 3411, 3412.

CHS 4503 Forensic Science (3). Modern instrumental methods of chemical analysis and their use in the administration of justice. Prerequisites: CHM 3120 and CHM 2211 or permission of the instructor. Corequisite: a semester of physical chemistry or permission of the instructor.

CHS 4503L Forensic Science Lab (1). Laboratory to accompany Forensic Science, CHS 4503. Prerequisite: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L or permission of the instructor.

CHS 4591 Forensic Science Internship (3). Internship in a forensic-science laboratory, contributing in a specific manner on an assigned problem. Twenty hrs/wk. Written report required. Open only to students in the Criminalistics Chemistry Program. Prerequisite: Senior standing.

CHS 5502 Forensic Chemistry for Teachers (3). Incorporates concepts and techniques from the application of analytical chemistry, molecular biology, biochemistry, toxicology, and microscopy to forensic casework. Exposure to teaching resources in these areas and case study format of presentation. Open to education majors only. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, and CHM 2211L or permission of instructor.

CHS 5531 Forensic Analysis (3). An introduction to established chemical analysis techniques used in forensic science and new techniques under development. Prerequisite: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L or permission of the instructor.

CHS 5531L Forensic Analysis Lab (1). Laboratory to accompany Forensic Analysis CHS 5531. Prerequisite: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L or permission of the instructor.

CHS 5538C Chemistry and Analysis of Drugs (3). Introduction to the chemistry of drugs of abuse, including reactivity, synthesis and the principles of analysis from solid doses and from body fluids. Laboratory analysis through the determination of unknown samples. Prerequisites: Instrumental Analysis, Biological Chemistry 1.

CHS 5545 Chemistry and Analysis of Explosives (3). Chemistry and reactivity, including thermochemistry, of modern industrial and military explosives with an emphasis on the analysis of explosives residues from post-blast debris and from samples of environmental interest. Prerequisite: Instrumental Analysis.
ISC 4041 Scientific Literature (1). This course presents a perspective on the scientific literature and scientific documentation. Problems in using and searching the scientific literature will be specifically designed to meet the needs of various disciplines, e.g. chemistry, environmental science, physics, biology. Prerequisites: 16 semester hours of science.
School of Computer Science

Jainendra K. Navlakha, Professor and Director
Bill Kraynek, Associate Professor and Associate Director
Walid Akache, Instructor
David Barton, Professor
Toby S. Berk, Professor
Shu-Ching Chen, Assistant Professor
Yi Deng, Associate Professor
Timothy Downey, Instructor
Raimund Ege, Associate Professor and Graduate Program Director
Mbola Fanomezantoa, Instructor
Xudong He, Associate Professor
Kip Irvine, Instructor
Masoud Milani, Associate Professor and Information Technology Director
Giri Narasimhan, Associate Professor
Ana Pasztor, Professor
Alexander Pelin, Associate Professor
Norman Pestaina, Instructor
Nagarahan Prabakar, Associate Professor
Naphthi Rishe, Professor
Gregory Shaw, Instructor
Geoffrey Smith, Assistant Professor
Joslyn Smith, Instructor
Wei Sun, Associate Professor
Mark A. Weiss, Professor

The Bachelor of Science program in Computer Science is accredited by the Computing Accreditation Commission (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - Telephone (410) 347-7700.

The School of Computer Science offers both undergraduate and graduate degree programs. The major program and a minor program, are described below.

Bachelor of Science in Computer Science

Degree Program Hours: 120

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

As part of the 60 semester hours of lower division course work necessary to enter this upper division major, note the following recommendations or course requirements, or both.

Required Courses

<table>
<thead>
<tr>
<th>Common Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 2210 Computer Programming I</td>
</tr>
<tr>
<td>COP 2210L Computer Programming Lab I or</td>
</tr>
<tr>
<td>COP 2423 C for Engineers</td>
</tr>
<tr>
<td>MAC 2311 Calculus I</td>
</tr>
<tr>
<td>MAC 2312 Calculus II</td>
</tr>
<tr>
<td>PHY 2048 Physics with Calculus I</td>
</tr>
<tr>
<td>PHY 2048L General Physics Lab I</td>
</tr>
<tr>
<td>PHY 2049 Physics with Calculus II</td>
</tr>
<tr>
<td>PHY 2049L General Physics Lab II</td>
</tr>
</tbody>
</table>

Two additional one-semester courses in natural science; each of these should be a course designed for science or engineering majors. A list of additional approved courses is available through the School of Computer Science.

Upper Division Requirements

Two tracks are available in the upper division program. The Computer Science track should be followed by the student who intends to continue to graduate study in computer science. The Software Design and Development track may be followed by the student who intends to pursue a software engineering career.

Courses Required for the Degree: (both tracks)

**Third and Fourth Years**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2104</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3211</td>
<td>Report and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>COT 3420</td>
<td>Logic for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>MAD 3512</td>
<td>Introduction to Theory of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>STA 3033</td>
<td>Introduction to Probability and Statistics for CS</td>
<td>3</td>
</tr>
<tr>
<td>CGS 3092</td>
<td>Professional Ethics &amp; Social Issues in Computer Science</td>
<td>1</td>
</tr>
<tr>
<td>COP 3337</td>
<td>Computer Programming II</td>
<td>3</td>
</tr>
<tr>
<td>COP 4338</td>
<td>Computer Programming III</td>
<td>3</td>
</tr>
<tr>
<td>COP 3402</td>
<td>Fundamentals of Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>COP 3550</td>
<td>Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>COP 4555</td>
<td>Survey of Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CDA 4101</td>
<td>Structured Computer Organization</td>
<td>3</td>
</tr>
<tr>
<td>CEN 4010</td>
<td>Software Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>COP 4610</td>
<td>Operating Systems Principles</td>
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Additional required courses for SDD track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 4015</td>
<td>Software Design and Development Project</td>
<td>3</td>
</tr>
<tr>
<td>CEN 4021</td>
<td>Software Engineering II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Computer Science Electives**

Students from both tracks must complete two courses from Set 1.

In addition, CS-track students must complete one course from Set 2.

**Set 1.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COP 5621</td>
<td>Compiler Construction</td>
<td>3</td>
</tr>
<tr>
<td>COP 4223</td>
<td>Advanced Unix Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 4226</td>
<td>Advanced Windows Programming</td>
<td>3</td>
</tr>
<tr>
<td>CEN 4500</td>
<td>Data Communications</td>
<td>3</td>
</tr>
<tr>
<td>COP 4540</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>CDA 4400</td>
<td>Computer Hardware Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CAP 4710</td>
<td>Principles of Computer Graphics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Set 2.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>COT 5420</td>
<td>Theory of Computation</td>
<td>1</td>
</tr>
<tr>
<td>MAD 3305</td>
<td>Graph Theory</td>
<td>3</td>
</tr>
<tr>
<td>MAD 3401</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MAD 4203</td>
<td>Introduction to Combinatorics</td>
<td>3</td>
</tr>
<tr>
<td>MHF 4302</td>
<td>Mathematical Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

At least 28 of the 46 upper division credits must be taken at the University.

**Remarks:** The following courses are not acceptable for credit toward graduation, unless a student has passed the course before declaring a Computer Science major: CGS 2060, CGS 3300, CGS 2100, COP 3175, MAC 2233, STA 1013, STA 2023, STA 2122, STA 3123, QMB 3200, ESI 3161.

Bachelor of Science in Information Technology

The School of Computer Science offers a Bachelor of Science degree in Information Technology as a second major. This program is open to those students who are enrolled in and will be completing another BS degree program or those who already have a BS degree from an accredited institution. Computer Science and Computer Engineering are not accepted as the primary major at this time.

**Degree Requirements**

Information Technology BS degree as a second major requires completion of prerequisite courses and 50 credit hours (10 courses) of required and elective courses as outlined below. All courses
must be completed with a grade of "C" or better.

Prerequisites:
All students must have completed the following courses (or equivalent) prior to starting the Information Technology program.

**CGS 2060**  Introduction to Microcomputers  3
**CGS 2100**  Introduction to Microcomputer Applications for Business  3
**COP 2250**  Programming in Java  3
**COP 2260**  Using the Internet  3
**MAD 1xxx**  Mathematics Concepts for Information Technology  3

Courses Required for the Degree:
All students must complete the following courses (18 credits).

**CGS 3425**  Web-Based Programming  3
**CGS 3620**  Microcomputer Organization  3
**CGS 3760**  Computer Operating Systems  3
**CGS 4283**  Applied Computer Networking  3
**CGS 4825**  Web Site Construction and Management  3
**CGS 4366**  Information Storage and Retrieval  3

Information Technology Electives:
All students must complete 2 courses (6 credits) from the following list.

**CGS 4365**  Knowledge-Based Management Systems  3
**EVR 4xxx**  Introduction to GIS  3
**COP 3344**  Introduction to Using Unix/Linux Systems  3
**COP 4xxx**  Windows Programming for IT Majors  3
**COP 4xxx**  Windows Components Technology  3
**CEN 2300**  NT System Administration  3
**COP 3465**  Data Structures for IT  3

Cognate Electives:
All students must complete 2 additional elective courses (6 credits). Students who are completing their major concurrent with their IT degree must choose their cognate elective courses from a list of designated courses from the department of their major. Students who have received their first BS degree prior to enrolling in the IT program must instead choose an additional two courses from the list of IT elective courses.

**Minor in Computer Science**

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COP 2210</td>
<td>Computer Programming I</td>
<td>4</td>
</tr>
<tr>
<td>COP 2210L</td>
<td>Computer Programming Lab I</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGS 2423</td>
<td>C for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>COP 3402</td>
<td>Fundamentals of Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>COP 3337</td>
<td>Computer Programming II</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus two from the following list: COP 3175, COP 4338, COP 3530, COP 3832, COP 4555, CDA 4101, CDA 4400, CEN 4500, COP 4710, and MAD 3401. Normally the students from Engineering would choose COP 4338, and either COP 3530 or CDA 4101 and students from the School of Business would choose COP 3175 and one other. If one of the other options is selected, then the student should verify that he or she has the additional prerequisites necessary for the chosen course. At least nine of the 15 credits must be taken at FIU.

**Course Description**

**Definition of Prefixes**


**CAP 5602 Introduction to Artificial Intelligence** (3). Presents the basic concepts of AI and their applications to game playing, problem solving, automated reasoning, natural language processing and expert systems. Prerequisite: COP 3530.

**CAP 5701 Advanced Computer Graphics** (3). Advanced topics in computer graphics: system architecture, interactive techniques, image synthesis, current research areas. Prerequisites: COP 3530 and CAP 3710 or equivalent, or by permission.

**CDA 4101 Structured Computer Organization** (3). Covers the levels of organization in a computer: Design of memory, buses, ALU, CPU; design of microprogram. Covers virtual memory, I/O, multiple processes, CISC, RISC and parallel architectures. Prerequisites: MAD 2104, COP 3402 and COP 3337.

**CDA 4400 Computer Hardware Analysis** (3). The study of hardware functions of a basic computer. Topics include logic elements, arithmetic logic units, control units, memory devices, organization and I/O devices. Prerequisites: CDA 4101.

**CEN 2300 Microsoft Windows NT Administration** (3). A two-part course covering introduction to Networking and the Windows NT Operating System. This course will cover material that is covered on the Microsoft Certified systems Engineer (MCSE) exam. Prerequisite: CGS 2060, or CGS 2100, or equivalent.

**CEN 4010 Software Engineering I** (3). Software Process Model, software analysis and specification, software design, testing. Prerequisite: COP 3530.

**CEN 4015 Software Design and Development Project** (3). Students design, implement, document, and test software systems working in faculty supervised project teams and utilizing knowledge obtained in previous courses. Required for Software Design and Development track. Prerequisite: CEN 4010.

**CEN 4021 Software Engineering II** (3). Issues underlying the successful development of large scale software projects: Software Architectures; Software Planning and Management; Team Structures; Cost Estimation. Prerequisite: CEN 4010.

**CEN 4500 Data Communications** (3). Study Computer network models and protocol layers. Topics include: error handling, frames, broadcast networks, channel allocation; network routing algorithms, internetworking, TCP/IP, ATM protocols. Prerequisite: CDA 4101.

**CEN 5011 Advanced Software Engineering** (3). This course deals with the design of large scale computer programs. Included are topics dealing with planning design, implementation, validation, metrics, and the
management of such software projects. Prerequisite: CEN 4010.

CEN 5120 Expert Systems (3). Introduction to expert systems, knowledge representation techniques and construction of expert systems. A project such as the implementation of an expert system in a high level Al-language is required. Prerequisite: COP 3530 or permission of the instructor.

CIS 4905 Independent Study (1-20). Individual conferences, assigned readings, and reports on independent investigations.

CIS 4930 Special Topics (1-3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

CIS 5900 Independent Study (1-10). Individual conferences, assigned readings, and reports on independent investigations.

CIS 5910 Project Research (1-6). Advanced undergraduate or master's level research for particular projects. Repeatable. Prerequisite: Permission of Department.

CIS 5931 Special Topics (1-3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

COP 2210 Computer Programming I (4). A first course in computer science that uses a structured programming language to study programming and problem solving on the computer. Includes the design, construction and analysis of programs. Student participation in a closed instructional lab is required.

COP 2210L Computer Programming Laboratory I (1). Laboratory section of COP 2210. Exercises based on the COP 2210 lecture topics. Corequisite: COP 2210.


COP 2800 Introduction to Java Programming (3). An introductory level course in programming using the Java programming language. Topics include primitive types, control structures, classes and objects, strings, arrays, Applets and GUI components. Not available to Computer Science majors for credit. Prerequisite: Knowledge of the Internet.


COP 3337 Computer Programming II (3). An intermediate level course in Object Oriented programming. Topics
include primitive types, control structures, strings arrays, objects and classes, data abstraction inheritance polymorphism and an introduction to data structures. Prerequisites: Course in programming, ex: Pascal, C, Ada or C++.

COP 3344 Introduction to Using Unix/Linux Systems (3). Techniques of Unix/Linux systems. Basic use, file system structure, process system structure, Unix tools (regular expressions, grep, find), simple and complex shell scripts, Xwindows. Not acceptable for credit for Computer Science majors. Prerequisites: COP 2210 or CGS 2423 or COP 2800 (Intro to Java Programming) or equivalent.


COP 3465 Data Structures for IT (3). Basic concepts of running time of a program, data structures including lists, stacks, queues, binary search trees, and hash tables, and internal sorting. Not acceptable for credit for CS majors. Prerequisites: Programming II (IT).

COP 3530 Data Structures (3). Basic concepts of data organization, running time of a program, abstract types, data structures including linked lists, n-ary trees, sets and graphs, internal sorting. Prerequisites: MAD 2104 and COP 3337.

COP 3832 Advanced Web Server Communication (3). Maintain a web server on the Internet. Learn HTML, PERL, Javascript. Configure the Apache web server. Write interactive server scripts. Discuss Web security & ASP. Use Java applets and ActiveX controls. Prerequisite: CGS 3559, COP 2210 or equivalents.

COP 3835 Designing Web Pages (3). Designing basic pages for display on the World Wide Web. Fundamental design elements and contemporary design tools are discussed. Prerequisites: CGS 2060 or equivalent.

COP 3949 Cooperative Education in Computer Science (1-3). One semester of full-time work, or equivalent, in an outside organization, limited to students admitted to the CO-OP program. A written report and supervisor evaluation is required of each student. Prerequisites: Calculus II and COP 3337.


COP 4226 Advanced Windows Programming (3). Advanced Windows Programming topics including Object Linking and Embedding (OLE), Open Database Connectivity (ODBC), Memory Management Techniques, Dynamic Link Libraries, Multithreaded Programming and Client/Server Applications. Prerequisite: COP 4338.

COP 4338 Computer Programming III (3). Topics include Object-Oriented programming Concepts and Modern Programming Techniques. Prerequisite: COP 3530.

COP 4540 Database Management (3). Logical aspects of databases. Topics include: Semantic Binary, Relational Network and hierarchical models; E-R Model; Database design; SQL; Physical Database Organization; Deductive Databases; Fourth-Generational Language. Prerequisite: COP 4338.

COP 4555 Principles of Programming Languages (3). A comparative study of several programming languages and paradigms. Emphasis is given to design, evaluation and implementation. Programs are written in a few of the languages. Prerequisite: COP 3337.

COP 4610 Operating Systems Principles (3). Operating systems design principles and implementation techniques. Address spaces, system call interface, process/thread, interprocess communication, deadlock, scheduling, memory, virtual memory, I/O, file systems. Prerequisites: CDA 4101 and COP 4338.

COP 4906 Research Experiences in Computer Science (1-3). Participation in ongoing research in the research centers of the school. Prerequisite: Permission of the instructor.

COP 4949 Cooperative Education in Computer Science (1-3). One semester of full-time work, or equivalent, in an outside organization, limited to students admitted to the CO-OP program. A written report and supervisor evaluation is required of each student. Prerequisites: MAC 2312, STA 3033 and COP 3337.

COP 4XXX Windows Components Technology (3). Component-Based and Distributed Programming Techniques: C++, Common Type System, Windows and Web Forms, Multithreading, Distributed Objects. Prerequisites: COP 4226 or Windows Programming for IT Majors.

COP 4XXX Windows Programming for IT Majors (3). Application development techniques in Windows: Visual Basic Classes, Objects, Controls, Forms and Dialogs, Database, Active X and Internet Programming and Enterprise Application Architecture. Not acceptable for credit for CS Majors. Prerequisite: Data Structure for IT majors.

COP 5621 Compiler Construction (3). Basic techniques of compilation; scanning; grammars and LL and LR parsing, code generation; symbol table management; optimization. Prerequisites: MAC 3512 and CEN 4010.

COP 5949 Cooperative Education in Computer Science (1-3). One semester of full-time work, or equivalent, in an outside organization, limited to students admitted to the CO-OP program. A written report and supervision evaluation is required of each student. Prerequisite: Graduate Standing.

COT 3420 Logic for Computer Science (3). An introduction to the logical concepts and computational aspects of propositional and predicate logic, as well as to concepts and techniques underlying logic programming, in particular, the computer language Prolog. Prerequisites: COP 3337, and MAD 2104.

COT 5420 Theory of Computation I (3). Abstract models of computation; including finite automata, regular expressions, context-free grammars, pushdown automata, Turing machines. Decidability and indecidability of computational problems. Prerequisite: MAD 3512.
Earth Sciences

Rosemary Hickey-Vargas, Professor and Chairperson
William Anderson, Assistant Professor
Luis Bartolucci, Courtesy Professor
Bradford Clement, Professor
Laurel Collins, Assistant Professor
Grenville Draper, Professor
Michael Gross, Associate Professor
Jose Longoria, Professor
Andrew Macfarlane, Associate Professor
Florentin Maurrasse, Professor
René Price, Assistant Professor
Edward Robinson, Courtesy Professor
Surendra Saxena, Professor
Gautam Sen, Professor
Neptune Srimal, Visiting Assistant Professor
Dean Whitman, Associate Professor

Knowledge of Earth Sciences is essential for understanding problems of ground-water supply, environmental hazards, geotechnical engineering, and natural resources. Geologists also are involved in basic research and teaching.

Well-equipped laboratories in the Earth Sciences Department allow students to learn the major techniques of the Earth Sciences. The geology program prepares students to become licensed Professional Geologists in the State of Florida.

The program offers a B.S. degree in Geology and a broader-based interdisciplinary B.A. in Geology. Only grades of 'C' or better will be accepted for required courses in either program option. A minor in geology is also available.

Bachelor of Science

Degree Program Hours: 120

Lower Division

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BSC 1100</td>
<td>General Biology II</td>
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<tr>
<td>BSC 1100L</td>
<td>General Biology II Lab</td>
<td></td>
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<tr>
<td>CHM 1045</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHM 1045L</td>
<td>General Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>CHM 1046</td>
<td>General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHM 1046L</td>
<td>General Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td>GLY 1100</td>
<td>Historical Geology</td>
<td></td>
</tr>
<tr>
<td>GLY 1100L</td>
<td>Historical Geology Lab</td>
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<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
<td></td>
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<tr>
<td>MAC 2312</td>
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</table>

Upper Division

<table>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GLY 3202</td>
<td>Earth Materials</td>
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<td>GLY 3202L</td>
<td>Earth Materials Lab</td>
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</tr>
<tr>
<td>GLY 4300</td>
<td>Petrology</td>
<td>3</td>
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<td>GLY 4300L</td>
<td>Petrology Lab</td>
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<tr>
<td>GLY 4311</td>
<td>Stratigraphy</td>
<td>3</td>
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<td>GLY 4311L</td>
<td>Stratigraphy Lab</td>
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<td>GLY 4400</td>
<td>Structural Geology</td>
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<tr>
<td>GLY 4822</td>
<td>Introduction to Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>GLY 4791</td>
<td>Field Geology and Geologic Mapping</td>
<td>3-6</td>
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<tr>
<td>GLY 3881</td>
<td>Environmental Geology Field Methods</td>
<td>3</td>
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<tr>
<td>GLY 3782</td>
<td>Geology Field Excursion</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>9-12</td>
</tr>
</tbody>
</table>

Election are three to four courses at the 3000 to 5000 levels offered by the Geology Department (but excluding Environmental Geology, GLY 3039, and Earth Resources, GLY 3510), selected to form a concentration, in consultation with a department advisor. For example, to form a concentration in environmental geology, a student might select from: Remote Sensing in the Earth Sciences (GLY 3754), Environmental Geochemistry Field Methods (GLY 3881), and Environmental Geology (GLY 3246).

Bachelor of Arts

Degree Program Hours: 120

This program is for the student who requires a broad background in geology for a career in science education or public or private administration dealing with Earth and Environmental Sciences.

Lower Division

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>General Biology II</td>
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</tbody>
</table>

College of Arts and Sciences

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<th>Course Title</th>
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<tbody>
<tr>
<td>BSC 1100L</td>
<td>General Biology II Lab</td>
<td></td>
</tr>
<tr>
<td>CHM 1045</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHM 1045L</td>
<td>General Chemistry I Lab</td>
<td></td>
</tr>
<tr>
<td>CHM 1046</td>
<td>General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHM 1046L</td>
<td>General Chemistry II Lab</td>
<td></td>
</tr>
<tr>
<td>GLY 1100</td>
<td>Historical Geology</td>
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</tr>
<tr>
<td>GLY 1100L</td>
<td>Historical Geology Lab</td>
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<td>Calculus I</td>
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<td>MAC 2312</td>
<td>Calculus II</td>
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</table>

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GLY 1100</td>
<td>Historical Geology</td>
<td></td>
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<tr>
<td>GLY 1100L</td>
<td>Historical Geology Lab</td>
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<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
<td></td>
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<tr>
<td>MAC 2312</td>
<td>Calculus II</td>
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<table>
<thead>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHY 2048</td>
<td>Physics with Calculus I</td>
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Upper Division

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<tr>
<td>GLY 3202</td>
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<td>GLY 4400</td>
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<td>GLY 4822</td>
<td>Introduction to Hydrogeology</td>
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<td>GLY 4791</td>
<td>Field Geology and Geologic Mapping</td>
<td>3-6</td>
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<td>GLY 3881</td>
<td>Environmental Geology Field Methods</td>
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<tr>
<td>GLY 3782</td>
<td>Geology Field Excursion</td>
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</tbody>
</table>

Electives are three approved 3000 or 4000 level courses in geology (excluding Earth Resources, GLY 3510, and Environmental Geology, GLY 3039), other science departments, or the College of Engineering.

Minor in Geology

Required courses

<table>
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<tr>
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<td>Historical Geology Lab</td>
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</tbody>
</table>

Cooperative Education

Students seeking the baccalaureate degree in Geology may also take part in the Cooperative Education Program conducted with the Department of Cooperative Education in the Division of Student Affairs. The student spends one or two semesters fully employed in industry or a government agency. For further information consult the
Course Descriptions

Note: Laboratories may not be taken prior to the corresponding lecture course. Laboratories must be taken concurrently where noted, but students must register for the laboratory separately.

Definition of Prefixes
ESC-Earth Sciences EVS-Environmental Science; GEO-Geography/Systematic; GLY-Geology; MET-Meteorology; OCE-Oceanography; OCG-Oceanography-Geological; OCP-Oceanography/Physical.

ESC 3930 Topics in Earth Sciences (1-5). Selected topics in earth sciences.

ESC 5162 Workshop: Microfossil Paleoenvironments (3). Recent foraminifera and diatoms are sampled, prepared and identified from marine to freshwater facies. Taxon distributions are used to interpret paleoenvironments. Prerequisite: Permission of Instructor.

EVS 4164 Applied Environmental Geology (3). EVS 4164L Applied Environmental Geology Lab (1). A survey of the geological and geographical factors critical to man's attempt to contend with the natural processes. Construction problems, sewers, waste disposal, dams, ground water, and terrain evaluation in relation to the nature of the underlying substratum. Principles illustrated from South Florida and the Caribbean region in particular. Study of the geological factors involved in future development and growth of these areas, and conservation methods in relation to the geology of these areas. Prerequisites: GLY 1010, GEO 2200, and a sound background in mathematics, physics, and chemistry. Laboratory must be taken concurrently with the course. (S in alternate years)

GEO 2200 Physical Geography (3). GEO 2200L Physical Geography Lab (1). Survey of the physical environment relevant to studies in regional geography and earth sciences. Natural evolution of landforms, and the interacting processes responsible for these features. Environmental modification and deterioration caused by human interaction. Effects of these changes: socio-economic impact and geographic problems. Case studies illustrated from South Florida and the Caribbean region. (S in alternate years.)

GEO 3151 Introduction to Geographical Information Systems (3). Introduction to GIS concepts and software such as ArcView. Topics include: cartographic basics, spatial datasets, attributes, map production, spatial statistics and analysis, and obtaining GIS data. Prerequisite: CGS 2060 and MAC 1102.

GEO 3510 Earth Resources (3). A course for non-majors dealing with the nature, origin, and distribution of mineral resources. Geology of petroleum, coal, metals, etc., and problems of their exploitation and depletion. (F,S,SS)

GLY 1010 Introduction to Earth Science (3). GLY 1010L Introduction to Earth Science Lab (1). Basic survey of Earth materials and structure, plate tectonics, volcanoes, earthquakes, surface processes and groundwater, climate change, earth resources and the impact of geology on society. (Lab fees assessed) (F,S,SS)

GLY 1037 Environmental Hydrology for High School Students (1). Environmental issues surrounding the natural occurrence and human use of surface water and groundwater in South Florida. Includes field trips to local sites of hydrologic/environmental significance.

GLY 1100 Historical Geology (3). GLY 1100L Historical Geology Lab (1). An introduction to the geological history of the earth and the geological time scale. Evolution of animals and plants. Prerequisite: GLY 1010 or GLY 3039 or equivalent. Lecture and lab must be taken concurrently. (S)

GLY 1101 The History of Life (3). GLY 1101L The History of Life Laboratory (1). Interaction of biological and geological processes. History and ecology of past life, and major events such as the marine invasion of land, mass extinctions, and the ice Age.

GLY 2072 Earth's Climate and Global Change (3). Introduction to Earth's climate and the variations of climate through geological and historical time. Emphasis is placed on the importance of the interactions of Earth's crust, atmosphere, biosphere and oceans in affecting the planet's climate. (F in alternate years)

GLY 2072L Earth's Climate and Global Change Lab (1). Practical analysis of the important factors affecting Earth's Climate. Analysis of historical and geological records of climate change. Corequisite: GLY 2072. (F in alternate years)

GLY 3034 Natural Disasters (3). A geological look at catastrophic events including earthquakes, volcanoes, tsunamis, mass movements, hurricanes, floods, and desertification. Emphasis on the geologic setting in which these natural disasters take place. Special attention will be given to compare similar disasters in the geologic past. Prerequisite: Physical science at the high school level. (F,S,SS)

GLY 3039 Environmental Geology (3). GLY 3039L Environmental Geology Lab (1). The composition and structure of the earth, the internal and external forces acting upon it and the resulting surface features. Case studies and general principles illustrated from South Florida and the Caribbean. Field trips expected. No prerequisites. (F,S,SS)

GLY 3103 Dinosaurs (3). Survey of the different groups of dinosaurs. Dinosaur biology, geology, and the history of their discovery to further understanding of their life histories environments, and the causes of their extinction. (F)

GLY 3103L Dinosaurs Laboratory (1). Survey of the different groups of dinosaurs. Laboratory study of dinosaur bones, prints and eggs to further our understanding of their life histories, environments, and the causes of their extinction. Corequisite: GLY 3103. (F)

GLY 3157 Elements of Caribbean Geology (3). A survey of the geology of the Caribbean and neighboring regions in view of current data and modern concepts of global tectonics. The course summarizes the important points of Caribbean and Central American geology in their relation to mineral and energy resources; natural environmental disasters, especially seismic zones; agriculture; and the geologic potential for future development and industrialization. (S in alternate years)

GLY 3202 Earth Materials (3). Physical and chemical properties of minerals and mineral assemblages, such
as rocks and soils. Processes of mineral formation. Prerequisites: GLY 1010 or permission of the instructor and General Chemistry. Corequisite: GLY 3202L. (F)

GLY 3202L Earth Materials Lab (2). Physical and chemical properties of minerals, rocks and soils with emphasis on identification. Application of macroscopic methods, X-ray diffraction, polarized light microscopy, in situ and bulk chemical analysis. Prerequisites: GLY 1010 and GLY 1010L or permission of the instructor and General Chemistry. Corequisite: 3202. (F)

GLY 3220 Optical Mineralogy (3). GLY 3220L Optical Mineralogy Lab (1). Principles and use of the petrographic microscope. Optical properties of isotropic, uniaxial and biaxial minerals. Prerequisite: GLY 3200 or equivalent. Laboratory must be taken concurrently with course. (S in alternate years)

GLY 3630 Research in Tropical Environments (3). Earth Sciences, Biology and Environmental Studies faculty describe research in marine and terrestrial ecosystems, geology, conservation and education. Students discuss scientific articles.

GLY 3754 Remote Sensing in the Earth Sciences (3). Remote sensing methods for the exploration and investigation of geologic processes and earth resources; airphoto interpretation, processing and analysis of multi-band digital satellite imagery; GIS. Prerequisite: GLY 1010 or permission of the instructor. (F)

GLY 3760 Geological Map Analysis (3). Laboratory course dealing with analysis of geological maps and sections; theory and method of interpretation of surface outcrops on maps. Properties of simple geological structures. Recommended to be taken prior to GLY 4400 and GLY 4791. Prerequisites: Trigonometry, Introduction to Earth Science or equivalent (e.g. MAC 2132, GLY 3639 or equivalents). (F)

GLY 3782 Geology Field Excursion (1-3). A one to three-week field excursion in a region of interest to demonstrate the occurrence, appearance and processes of various geological phenomena. Course may be repeated. Prerequisite: GLY 1010. (F,S,SS)

GLY 3881 Environmental Geology Field Methods (3). Introduction to commonly used field methods in environmental geology including site evaluation, bore-hole geophysical and hydrogeological techniques, and topographic map skills. Prerequisites: GLY 1010 or GLY 3039.

GLY 3949/4949 Cooperative Education in Geology (1-3). One semester of full-time supervised work in an outside laboratory taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluations will be required for each student. (F,S,SS)

GLY 4036 Earth Sciences and Society (3). Explores the new directions of Earth Science studies and examines how they can enhance society's ability to make wise decisions on resource development, waste disposal, natural hazards. Prerequisites: GLY 1010 or GLY 3039.

GLY 4300 Petrology (3). Origin, composition and classification of igneous, sedimentary, and metamorphic rocks. Observational, theoretical, and experimental studies of rocks. Prerequisite: GLY 3202. (S)

GLY 4300L Petrology Lab (2). Identification of rocks using macroscopic and microscopic techniques. Application of electron microscope. Prerequisite: GLY 3202. (S)

GLY 4400 Structural Geology (3). GLY 4400L Structural Geology Lab (1). Faults, folds, fractures and other rock structures; their description and representation on maps and diagrams; mechanics of their formation. Prerequisites: GLY 1010 or equivalent; knowledge of trigonometry and algebra. (S)

GLY 4450 Environmental and Exploration Geophysics (3). Introduction to geophysical methods used in exploration and environmental geophysics. Seismic methods; potential fields; electrical and EM methods; ground penetrating radar; geophysical well logging. Prerequisites: GLY 1010 or 3030; MAC 2312 PHY 2049 or 3054; or consent of instructor. Corequisite: GLY 4450L. (S)

GLY 4450L Environmental and Exploration Geophysics Laboratory (1). Acquisition and interpretation of exploration geophysical data. Seismic, gravity, magnetic, and geoelectrical methods; geophysical well logging. 4-5 field trips to sites in Dade County expected. Corequisite: GLY 4450. Prerequisite: GLY 3760 or GLY 4400 or permission of the instructor. Corequisite: GLY 4450. (S)

GLY 4511 Stratigraphy (3). Stratigraphic principles applied to interpreting the rock record. Sediments, depositional environments and dynamics in the sedimentary record. Stratigraphic correlation and the development of the geologic time scale. Prerequisites: GLY 3202L. (F)

GLY 4511L Stratigraphy Lab (1). Laboratory analysis of rock facies and index fossils used in the interpretation of the geologic record. Prerequisites: GLY 3202L. (F)

GLY 4551 Sedimentology (3). GLY 4551L Sedimentology Lab (1). Sedimentary processes in the geological cycles, as illustrated in recent environments. Different groups of sedimentary rocks. Primary and secondary sedimentary structures. Physico-chemical properties and diagenetic processes. Analytical techniques applied to modern sedimentology of both loose and lithified sediments. Prerequisites: Introduction to Earth Science or equivalent; Earth Materials and Stratigraphy and a sound background in mathematics and chemistry. Laboratory must be taken concurrently with course. (S)

GLY 4650 Paleobiology (3). GLY 4650L Paleobiology Lab (1). Development of life as traced through the fossil record. Survey of the major groups of animals commonly found as fossils. Theories of evolution and extinction. Study of the major fossil groups used in biostratigraphic zonation, and as paleoecological indicators. Prerequisites: Physical and historical geology, general biology, or the instructor's permission. Laboratory must be taken concurrently with course. (F)

bed assessment of mineral resources in the Caribbean and neighboring region. Prerequisites: OCE 3014, GY 1010, or instructor’s permission. Laboratory must be taken concurrently with course. (F)

GLY 4791 Field Geology and Geologic Mapping (3-6). A three- to six-week field instruction and practice in methods of constructing stratigraphic sections, structural cross sections and geologic mapping using topographic base maps, aerial photos, and surveying equipment. Prerequisites: GLY 4511 and GLY 4511L, GLY 4400 and GLY 4400L. (SS)

GLY 4812 Introduction to Ore Deposits (3). Major classes of metal deposits, their geologic settings and genetic theories, and case studies of great deposits. Environmental, economic and legal aspects of metal extraction, processing and use. Prerequisites: GLY 1010, GLY 1010L or GLY 3039. GLY 3039L. (S)

GLY 4822 Introduction to Hydrogeology (3). Principles of groundwater flow, determination of aquifer properties, geologic factors influencing groundwater flow and quality, legal/regulatory framework for hydrogeology. Prerequisite: One college-level course in physics, chemistry, geology, and calculus, or permission of the instructor. (F)

GLY 4823 Florida Geologic and Hydrologic Systems (3). Survey of geological formations of Florida and their relationship to hydrologic and mineral resources. Sedimentary facies in relation to their hydrologic properties. Prerequisites: GLY 4822 and GLY 4511 or permission of the instructor. (S in alternate years)

GLY 4910, GLY 4911 Undergraduate Research in Geology (VAR). Individual research under the supervision of a professor in the student’s field of specialization or interest. Subject may deal with laboratory work, field, and/or bibliographical work. Field research in the Caribbean is encouraged. Variable credit to a maximum of 10 credits. Permission of the student’s advisor is required. (F, S, SS)

GLY 5021 Earth Sciences for Teachers (3). Study of geological materials and processes, as covered in Introduction to Earth Science, but at a higher level and with additional assignments. Prerequisite: Permission of the instructor. Corequisite: GLY 5021L. (F, S, SS)

GLY 5021L Earth Sciences for Teachers Laboratory (1). Study of the properties of minerals and rocks; interpretation of topographic and geologic maps; study of the geology of Florida, including field trips. Prerequisite: Permission of the instructor. Corequisite: GLY 5021L. (F, S, SS)

GLY 5106 Paleoeocology and Paleo-environments (3). Paleoeocology of fossils, paleobiodiversity, sedimentary facies, and environments, skeletal mineralogy, paleogeological gradients, chronologic scales and paleoecography and global patterns. Prerequisite: Permission of the instructor.

GLY 5158 Florida Geology (3). Detailed lithostratigraphic and biostratigraphic analyses of Southeast Florida and their relationship to tectonics, paleoclimates. Prerequisite: GLY 3511 and GLY 3511L. (S in alternate years)

GLY 5245 Water-Rock Interaction (3). Survey of geochemical processes at the water-rock interface. Topics include absorption of inorganic and organic ions, colloidal stability in groundwater, mineral dissolution and precipitation. Prerequisites: CHM 1046, MAC 3312, GLY 4311 or Permission of the instructor.

GLY 5246 Geochemistry (3). GLY 5246L Geochemistry Lab (1). Origin of chemical elements and principles affecting their distribution in the solar system, solid earth and hydrosphere. Use of chemical data to solve geologic problems. Prerequisites: Introduction to Earth Science and General Chemistry. (F in alternate years)

GLY 5266 Stable Isotope Biogeochemistry (3). Application and theory of stable isotope approaches to biogeochemistry. Topics: Introduction to ICP-MS, C/N/O/H/S (biogeochem. processes); sampling/lab prep., and recent advances. Prerequisites: One year of chemistry or consent of instructor.

GLY 5283C Application of ICPES in Geochemistry (3). Determination of elemental abundances in rocks, soils, natural water using inductively coupled plasma emission spectroscopy (ICPES). Instrumental principles, sample selection and preparation methods and application of results to research. Prerequisites: CHM 1045, CHM 1046 or permission of the instructor. (S or SS)

GLY 5284 Electromicroprobe and Scanning Electron Microscopy (3). Involves imaging and analysis of geological and other materials using Electron Probe and Scanning Electron Microscope. (F)

GLY 5284L Electron Microprobe and Scanning Electron Microscopy Lab (1). Involves imaging and analysis of geological and other materials using Electron Probe and Scanning Electron Microscope. (F)

GLY 5286 Research Instrumentation and Techniques in Geology (3). Survey of techniques and instrumentation used in geological research, including computing and data handling. Prerequisite: Graduate standing or permission of the instructor. Corequisite: GLY 5286L. (F)

GLY 5286L Research Instrumentation and Techniques in Geology Lab (1). Introduction to advanced instrumentation and analytical techniques in Geology, including computing and data processing. Prerequisite: Graduate standing or permission of the instructor. Corequisite: GLY 5286L. (F)

GLY 5287C Scanning Electron Microscopy with EDS Analysis (3). Imaging and microanalysis of materials using SEM including EDS. Prerequisite: Permission of Instructor.

GLY 5288C Electron Microprobe Microanalysis with EDS Analysis (3). Imaging and analysis of geological and other materials using electron microprobe with EDS analysis. Prerequisite: Permission of Instructor.

GLY 5298 Topics in Geochemistry (3). Seminar covering current research in selected areas of low-temperature geochemistry: oceans and oceanic sediments; continental waters and sediments; hydrothermal systems. Prerequisite: GLY 5246 or permission of the instructor. (F)

GLY 5322 Igneous Petrology and Geochemistry (3). Presentation and discussion of current topics in igneous petrology and geochemistry in a seminar format. Prerequisite: Permission of the instructor. (S)

GLY 5335 Metamorphic Geology (3). Metamorphic mineralogy, characteristics of low, medium and high
pressure metamorphic rocks; pressure-temperature determinations; metamorphic textures; modeling and determination of P-T-t paths. (F in alternate years)

GLY 5335L Metamorphic Geology Lab (1). Petrographic examination of metamorphic rocks. (F)

GLY 5346 Sedimentary Petrology (3). Systematic study of sedimentary rocks. Special emphasis on genetical aspects, geochemistry, paleontology, mineralogy, and microfacies. Emphasizes microscopic study. Prerequisite: GLY 4551. Co-requisite: GLY 5346L. (F in alternate years)

GLY 5346L Sedimentary Petrology Lab (1). Laboratory studies of sediments and sedimentary rocks with emphasis on microscopic analyses and geochemical techniques. Prerequisite: GLY 4551 and GLY 4551L. Co-requisite: GLY 5346. (F in alternate years)

GLY 5408 Advanced Structural Geology (3). Advanced treatment of the theory of rock mechanics to solve problems solve natural rock deformation. Prerequisites: GLY 4400, MAC 3413, or permission of the instructor. Co-requisite: GLY 5408L. (S)


GLY 5415 Caribbean Geology and Tectonics (3). Integration of geologic and geophysical data to understand the evolution and present tectonic configuration of the Caribbean area. Prerequisite: Permission of the instructor.

GLY 5425 Tectonics (3). Properties of the lithosphere, plate kinematics and continental drift, characteristics of plate boundaries, mountain belts, formation of sedimentary basins. Prerequisites: GLY 1010, 1100, 4400, 4310, 3200 or permission of the instructor. (S)

GLY 5455 Physical Volcanology (3). Description of volcanoes and their products, geophysical and tectonic constraints on volcanic processes, and modeling and forecasting of volcanic eruptions. Prerequisite: GLY 4450, GLY 4310 or Permission of the instructor. (F in alternate years)

GLY 5457 Analysis of Geophysical Data (3). Reduction and interpretation of geophysical data, including time series analysis, continuation of potential fields. Three-dimensional modeling of gravity, magnetic data, integrated geophysical surveys. Prerequisites: GLY 4450, PHY 2048, PHY 2049, MAC 2311, MAC 2312, MAP 2302. Corequisite: GLY 5457L. (S)

GLY 5457L Analysis of Geophysical Data Lab (1). Field and laboratory applications of geophysical techniques. Computer aided analysis and three-dimensional modeling of gravity and magnetic data. Prerequisites: GLY 4450, PHY 2048, PHY 2049, MAC 2311, MAC 2312, MAP 2302. Corequisite: GLY 5457. (S)

GLY 5495 Seminar in Geophysics (2). Detailed investigation of current geophysical techniques, including topics on instrument design. Prerequisite: GLY 5457 or permission of the instructor. (F/S)

GLY 5497 Topics in Structural Geology and Tectonics (3). Selected advanced topics in structural geology and rock deformation. Latest advances in crustal tectonics. Prerequisite: GLY 5408. (F/S)

GLY 5599 Seminar in Stratigraphy (3). Discussion of research projects and/or current literature in stratigraphic correlation as derived from sedimentologic principles and biozonation. Prerequisite: GLY 5346. (F)

GLY 5608 Advanced Paleontology I (3). Discussion of current literature and research projects on evolution, systematics functional morphology, with reports by members of the seminar. Prerequisites: GLY 4650, or permission of the instructor. (F)

GLY 5621 Caribbean Stratigraphic Micropaleontology (3). Microscopic study of biostratigraphic type sections from the Caribbean area. Emphasis on planktonic foraminifera and radiolaria, paleoecologic and paleoclimatic interpretations. Prerequisite: GLY 4650 or permission of the instructor. (F)

GLY 5710 Watershed Hydrology (3). Hydrologic processes on watershed, water budgets, effects on water quality, field investigative methods using tracers and hydrometric measurements, hydrologic and hydrochemical models.

GLY 5754 Applied Remote Sensing in the Earth Sciences (3). Application of remote sensing and image analysis in the earth sciences; qualitative and quantitative satellite image and aerial photo interpretation. Emphasis is on use of computer processing packages. Prerequisites: GLY 1010 or consent of instructor.

GLY 5758 GIS and Spatial Analysis for Earth Scientists (3). Application of GIS technology to spatial problems in the Earth Sciences. Topics include: spatial stastics, sampling theory, surface estimation, map algebra, and suitability modeling.

GLY 5785 Caribbean Shallow-Marine Environments (3). Field study of multiple tropical environments in the Caribbean area. Dynamic processes and coastal evolution in response to natural and human-induced changes.

GLY 5786 Advanced Field Excursion (3). A study of the geology of a selected region of the world followed by 10-12 day field trip in order to study the field relationships of the geologic features. Special emphasis is given to stratigraphic, structural and tectonic relationships of lithic package. Prerequisite: Permission of the instructor. (SS)

GLY 5808 Mining Geology (3). Application of theoretical models of ore formation to exploration and the use of geochemical and geophysical techniques in the search for ore deposits. Prerequisites: GLY 4311 and CHM 1046. (F/S)

GLY 5816 Economic Geology (3). Economically important metal deposits of sedimentary, igneous and hydrothermal origins and their geologic settings and characteristics. Prerequisites: GLY 1010, GLY 4300, CHM 1045, CHM 1046. (F)

GLY 5826 Hydrogeologic Modeling (3). Techniques used in modeling groundwater flow and solute transport in geologic systems. Case studies of significant aquifers. Prerequisites: GLY 5827, MAP 2302, or permission of the instructor. (S,SS)

GLY 5827 Hydrogeology (3). Physics of flow in geological media. Saturated and unsaturated flow, groundwater and the hydrologic cycle, estimating hydraulic parameters of aquifers, introduction to chemical transport. Prerequisite: GLY 1010, MAC 2312, and
PHY 2053, or permission of the instructor. (F)

GLY 5827L Hydrogeology Lab (1). Laboratory, field, and computer exercises to complement GLY 5827. (F)

GLY 5828 Chemical Hydrogeology and Solute Transport (3). Quantitative analysis of hydrologic, geologic, and chemical factors controlling water quality and the transport and fate of organic and inorganic solutes in the subsurface. Prerequisite: GLY 5827. (S)

GLY 5889 Geology for Environmental Scientists and Engineers (3). Characterization of rocks and rock masses; geological maps; seismic hazards; weathering of rocks; hydrologic cycle; slope stability; coastal processes; geophysical techniques. Course includes field trips in the South Florida region. Prerequisites: CHM 1045, GLY 1010 or permission of the instructor. (S)

GLY 5931 Graduate Seminar (1). Presentation or critical examination of current research problems in geology. A selection of topics is considered each term. Topics may also include individual research in the student's field of investigation. Prerequisite: Graduate standing or permission of the instructor. (F,S,SS)


### Economics

Panagis Liossatos, Professor and Chairperson  
Nejat M. Anbarci, Associate Professor  
Harvey Averch, Professor, Courtesy Appointment, College of Public and Urban Affairs  
Mahadev Bhat, Assistant Professor (joint appointment with Environmental Studies)  
John H. Boyd III, Associate Professor  
Manuel J. Carvajal, Professor  
Richard A. Chisik, Assistant Professor  
Russell Chuderewicz, Lecturer  
Irina de Alonso, Professor  
Alan Gummersen, Lecturer  
Antonio Jorge, Professor of Political Economy, (joint appointment with International Realities)  
Ali Cem Karayalcin, Associate Professor  
J. Kenneth Lipner, Associate Professor  
Sanatun Roy, Associate Professor  
Jorge Salazar-Carrillo, Professor and Director, Center for Economic Research and Education  
Constantinos Syropoulos, Associate Professor  
Dimitrios Thomakos, Assistant Professor  
Tao Wang, Assistant Professor  
Mira Wilkins, Professor  
Maria Willumsen, Associate Professor

The major in economics provides the student with an understanding of economic problems and institutions, and with analytical tools to apply this knowledge to contemporary problems. The program is designed for the student desiring a career in business, government, international agencies, or multinational corporations; and for those planning graduate study in economics, business, law, public administration, urban studies, or international relations.

#### Bachelor of Arts

**Degree Program Hours: 120**

**Lower Division Preparation**

**Required Courses**

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<th>Hours</th>
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<td>ECO 2013</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td>ECO 2023</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
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<tr>
<td>MAC 2223</td>
<td>Calculus for Business</td>
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<tr>
<td>STA 2122</td>
<td>Introduction to Statistics I</td>
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<tr>
<td>STA 2023</td>
<td>Statistics for Business and Economics</td>
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To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

**Upper Division Program: (60)**

**Required Courses for the Major (18)**

<table>
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<td>ECO 3101</td>
<td>Intermediate Microeconomics</td>
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<tr>
<td>ECO 3203</td>
<td>Intermediate Macroeconomics</td>
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<tr>
<td>ECO 3410</td>
<td>Measurement and Analysis of Econ Activity</td>
<td>3</td>
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<tr>
<td>ECO 4421</td>
<td>Introduction to Econometrics</td>
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<td>ECO 4932</td>
<td>Topics in Theory</td>
<td>3</td>
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<td>ECO 4903</td>
<td>Undergraduate Seminar</td>
<td>3</td>
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<tr>
<td>ECO 3410</td>
<td>and ECO 4421 each satisfy the FIU requirement in Computer Competency. ECO 4903 satisfies the requirement in Oral Competency.</td>
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</table>

**Electives**

1. A core set of economics courses from which the student must successfully complete at least two;  
2. A secondary set of economics courses from which the student must successfully complete at least one.

One or more Tracks may be offered in a given year. Majors in economics may choose among the following Tracks:

#### Track in International Economics

**Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECO 4703</td>
<td>International Trade Theory &amp; Policy</td>
<td>3</td>
</tr>
<tr>
<td>ECO 4713</td>
<td>International Macroeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Secondary Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 3003</td>
<td>Comparative Economic Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECO 4701</td>
<td>World Economy</td>
<td>3</td>
</tr>
<tr>
<td>ECO 5709</td>
<td>World Economy</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Track in the Economics of Public Policy

**Core Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECO 4504</td>
<td>Public Finance</td>
<td>3</td>
</tr>
<tr>
<td>ECP 4204</td>
<td>Theory of Labor Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Secondary Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECP 3203</td>
<td>Introduction to Labor Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 3223</td>
<td>Money &amp; Banking</td>
<td>3</td>
</tr>
<tr>
<td>ECP 3302</td>
<td>Introduction to Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECP 3410</td>
<td>Introduction to Public Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECP 4314</td>
<td>Natural Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECP 3451</td>
<td>Law &amp; Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

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1. This requirement can also be met by taking ECO 4933.  
2. The following courses cannot be used as Elective Courses for the Major: ECO 2013, ECO 2023, ECO 3014, ECO 3041, ECO 3202, ECO 3949, ECO 4906, ECO 4949.

**Minor in Economics: (18)**

**Required Courses for the Minor (12)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECO 2013</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2023</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 3101</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

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The following courses cannot be used as Elective Courses for the Minor:

ECO 3014, ECO 3202, ECO 3949, ECO 4906, ECO 4949.
ECO 2013 Principles of Macroeconomics (3). Introduction to economic analysis of the overall economy: national income accounting, unemployment, inflation, monetary and fiscal policies, budget deficits and debt, long-run growth. (F,S,SS)

ECO 2023 Principles of Microeconomics (3). Introduction to economic analysis of individual units—households and firms. Operation of markets; supply and demand analysis. (F,S,SS)

ECO 3041 Consumer Economics (3). Consumer behavior; advertising and other influences affecting demand. Patterns of consumer expenditure; effects of public policy on family incomes and consumption patterns. The consumer protection movement. Does not count as economics elective toward economics major. (F,S,SS)

ECO 3101 Intermediate Macroeconomics (3). Analysis of aggregate economic performance and business conditions analysis, nature and cause of economic expansions and recessions, inflation, balance of trade, balance of payments, and exchange rate problems, fiscal and monetary policies, short-run instability and long-run growth. Cannot be taken for credit concurrently with, or after taking ECO 3203. Prerequisite: ECO 2013. (F,S)

ECO 3202 Applied Macroeconomics (3). Aggregate economic performance and business conditions analysis, nature and cause of economic expansions and recessions, inflation, balance of trade, balance of payments, and exchange rate problems, fiscal and monetary policies, short-run instability and long-run growth. Cannot be taken for credit concurrently with, or after taking ECO 3203. Prerequisite: ECO 2013. (F,S,SS)

ECO 3203 Intermediate Macroeconomics (3). Analysis of the aggregate economy in the long-run (full employment, economic growth, productivity) and the short-run (unemployment, business cycles); economic policy for short-run stability and long-run growth (monetary and fiscal policies, budget deficit, inflation, and debt); balance of payments and exchange rate. Prerequisite: ECO 2013. (F,S)

ECO 3223 Money and Banking (3). Elements of monetary theory; relationships between money, prices, production, and employment; factors determining money supply; history and principles of banking, with special references to the United States. Prerequisite: ECO 2013. (F)

ECO 3303 Development of Economic Thought (3). Evolution of economic theory and doctrine. Contributions to economic thought from ancient times to J. M. Keynes. Emphasis on institutional forces shaping the continuum of economic thinking. (S)

ECO 3304 Economic Forces and the Development of Western Ideas (3). Analyzes the emergence and evolution of western views and doctrines in light of the interaction of market forces, technology, and key events.

ECO 3410 Measurement and Analysis of Economic Activity (3). Covers statistical methods as applied in economics. Topics include estimation and hypothesis testing; analysis of variance and single and multiple regression models. Prerequisites: STA 2023 or equivalent. Satisfies requirement in computer literacy. (F,S)

ECO 3704 International Economics (3). Explorations of why nations trade, effects of trade on distribution, commercial policy, balance of payments; exchange rate determination, Eurocurrency markets, and international institutions. Prerequisites: ECO 2013 and ECO 2023.

ECO 3923 Special Topics (3). A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

ECO 3949 Cooperative Education in Economics (1-3). A student majoring in Economics may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Does not count as economics elective toward economics major.

ECO 4100 Managerial Economics (3). Economic analysis of problems managers of firms face, such as choosing production levels, deciding how much labor to hire, budgeting capital, and dealing with uncertainty. Prerequisites: ECO 3101, Calculus, and Statistics.

ECO 4237 Money, Interest, and Capital (3). Economic analysis of the asset markets and the effect of monetary policy; interest rates and intertemporal choice; asset pricing; efficient market hypothesis and economic behavior models in asset markets. Prerequisites: ECO 3101 and ECO 3203 or permission of the instructor.
ECO 4224 Issues in Money and Banking (3). Current controversies in the conduct of monetary policy; innovations in financial markets and instruments, and their impact on the targets and long-run goals of central banks. Prerequisite: ECO 3203 or ECO 3202.

ECO 4321 Radical Political Economy (3). The relationship between Marxist and orthodox economists. Attention given to the New Left and other current criticisms of capitalist economies. Multinational corporate policy, concentration of economic power, income distribution, and Third World development.

ECO 4401 Introduction to Mathematical Economics (3). Mathematical formulation of economic theory. Mathematical treatment of maximizing and optimizing behavior; applications to consumer and business firm theory, value, economic strategies, growth and stability. Emphasis on understanding of analytical techniques. Prerequisites: ECO 3101 or ECO 3203 (preferably both), and Calculus. (F,S)

ECO 4421 Introduction to Econometrics (3). Application of statistics and economic theory to formulating, estimating, and drawing inferences about relationships among economic variables. Coverage includes linear regression model, heteroscedasticity, serial correlation, multicollinearity, and simultaneous equations. Prerequisites: ECO 3101, ECO 3203, and ECO 3410, or permission of the instructor. Satisfies requirement in computer literacy. (F,S)

ECO 4504 Introduction to Public Finance (3). Describes the way resources are allocated in a market economy and cases where markets fail. Analyzes government expenditure policy, principles of taxation, and the various taxes in use today. Prerequisite: ECO 3101. (S)

ECO 4622 Economic History of the United States (3). The growth of the American economy from colonial times to the present. Special emphasis on market forces, institutional arrangements, and policies contributing to this expansion. (F)


ECO 4701 World Economy (3). A broad overview of the international economy in historical perspective. Topics: economic demography, trade flows, capital movements, diffusion of technology, the emergence of transnational institutions. The student obtains a conception of how economic interdependence has developed.

ECO 4703 International Trade Theory and Policy (3). Causes and consequences of international trade; effects of tariffs and quotas; strategic trade and industrial policies; political economy of protectionism; international economic integration: factor movements; and multinational firms. Prerequisite: ECO 3101. (F)

ECO 4713 International Macroeconomics (3). Analysis of output, inflation, business cycles and economic policy in open economy settings; exchange rate regimes (fixed versus flexible exchange rate); fiscal, monetary, and exchange rate policies. Prerequisite: ECO 3203. (S)


ECO 4903 Undergraduate Seminar (3). Small class in which students will discuss readings, write research paper, and defend research and ideas orally. Satisfies SACS requirement in oral competency. Prerequisites: ECO 3101 and ECO 3203.

ECO 4906 Undergraduate Tutorial (1-6). Supervised readings, individual tutorial, and preparation of reports. Requires consent of faculty supervisor and Department Chairperson. Does not count as economics elective toward economics major.

ECO 4932, 4933 Topics in Theory (3,3). Study of a particular topic or a selected number of topics in economics theory not otherwise offered in the curriculum. Prerequisites: ECO 3101, ECO 3203, and MAC 2311 or permission of the instructor. (F,S)

ECO 4934 Special Topics (3). A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum. May be repeated for credit with permission of Department. Prerequisite: Permission of the instructor.

ECO 4949 Cooperative Education in Economics (1-3). A student majoring in economics may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Does not count as economics elective toward economics major.

ECO 5709 The World Economy (3). Designed to give an overview of the crucial issues in the world economy. The course covers trade, capital, labor, and technology flows; transnational economic organizations; current economic crisis; global economic interdependence; and the nature and characteristics of international economic order. Required for MIB Program. (S)

ECO 5735 Multinational Corporations (3). Economic theory and multinational corporations. Economic effects. Consequences of nationalization. Spread of the multinational form. State-owned multinational corporations. Prerequisite: Permission of the instructor for undergraduates. (S)

ECO 5906 Advanced Individual Study (1-6). Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and Department Chairperson. Open to seniors and graduate students.

ECO 5945 Internship (3). Directed individual study which assists the student in using economic analysis in his employment. Prerequisite: Permission of the chair.


ECP 3143 Economics of Racism (3). Analysis and examination of the economic costs of racism to the individual and society. A perspective from mercantilism to the post-industrial contemporary world; international racial aspects of development, income distribution and wealth.

ECP 3203 Introduction to Labor Economics (3). Basic introduction to
supply and demand for labor. Discusses labor markets in both historical and institutional context emphasizing why certain patterns have occurred and contemporary institutions developed. Prerequisite: ECO 2023.

ECP 3302 Introduction to Environmental Economics (3). Economic principles applied to environmental problems. Relationship of market and non-market forces to environmental quality. Development of tools for policy analysis. Prerequisite: ECO 2023, or permission of the instructor. (F,S,SS)

ECP 3410 Introduction to Public Economics (3). An introduction to the applied economics of the public sector and the microeconomics of public policy making and administration.

ECP 3451 Law and Economics (3). The relationship of economic principles to law and the use of economic analysis to the study of legal problems. Topics include: property rights and contracts, and economic analysis of legal decision making. Prerequisites: ECO 2013 and ECO 2023 or equivalents.

ECP 3533 Health Systems Economics (3). Identification of health systems issues and basic instruments of health systems analysis including the market mechanism, insurance and cost-benefit analysis.

ECP 3613 Introduction to Urban Economics (3). Study of urban areas, their characteristics and economic functions. Topics include location decisions of firms and households, economies of agglomeration, transportation, land use, zoning, urban growth and development policies, urban dimensions of economic and social problems, and the public sector in urban areas. (F)

ECP 4004 Seminar on Current Economic Topics (3). Faculty and student discussion of contemporary economic and social issues.

ECP 4031 Cost-Benefit Analysis (3). Covers cost-benefit analysis, cost-effectiveness analysis, benefit-risk analysis, risk-risk analysis, and systems analysis as applied in the government sector for public investment decisions. Prerequisite: ECO 3101 or equivalent.

ECP 4204 Theory of Labor Economics (3). Neo-classical theory of labor demand and labor supply, human capital theory and critiques. Current programs of human resource development and income maintenance are discussed. Prerequisite: ECO 3101.

ECP 4314 Natural Resource Economics (3). Natural resources and the economy; economics of renewable and nonrenewable resource harvesting and management; public policy options for influencing resource consumption and their environmental implications. Prerequisites: ECP 3203 and ECO 3101, or permission of the instructor.

ECP 4403 Industrial Organization (3). Theory of the firm, market structure; business strategies and conduct. Topics include information and advertising, product durability, technical change, antitrust and trade policies, and regulation. Prerequisite: ECO 3101.

ECS 3003 Comparative Economic Systems (3). Analysis of alternative economic systems. Emphasis on the contrast between market-oriented capitalist economies and Soviet-style planned economies, and on the process of transition from planned to market-oriented systems. Prerequisites: ENC 1101 and ENC 1102.

ECS 3013 Introduction to Economic Development (3). Structural and institutional determinants of economic development; economic analysis and policy formation. Topics include theories of economic development, economic growth, income distribution, rural-urban migration, industry and agriculture, unemployment, education, international trade, economic reform, and the environment. Prerequisites: ECO 2013 and ECO 2023. (F,S)

ECS 3021 Women, Culture, and Economic Development (3). Analysis of problems facing women in developing countries, focusing on gender and cultural issues and their relationships to economic development. Prerequisite: ECO 2013 and ECO 2023 or permission of the instructor.

ECS 3200 Economics of Asia (3). Economic analysis of the problems of poverty, malnutrition and income inequality in South Asia. Rural poverty and agricultural transformation. The East Asian Miracle. The Asian Crisis. Economic liberalization in Asia. Prerequisites: Macro and Micro Principles or the consent of the instructor.

ECS 3401 The Brazilian Economy (3). Examines the evolution of Brazilian economy, focusing on the process of its industrialization in the 20th century, the policies to achieve it, its impact on the socioeconomic environment and the adjustments of institutions to the structural changes in the economy. Prerequisites: ECO 2013 and ECO 2023.

ECS 3402 The Political Economy of South America (3). An introduction to the political economy of the South American countries, with emphasis on the opening of the region's economies, privatization and deregulation, debt crisis, foreign investment, poverty, income distribution, human resources, and regional trade agreements. Prerequisites: ECO 2013 and ECO 2023. (F)

ECS 3403 Economics of Latin America (3). Study of current economic issues facing Latin American countries, including population growth, poverty, inequality, inflation, trade balance of payment problems, economic reform, and regional integration. Prerequisites: ECO 2013 and ECO 2023. (S)

ECS 3404 Economic Integration/Latin America (3). Analysis of the methods, meaning and implications of economics in Latin America. Designed to enable the student to appreciate the trend toward regionalism and economic cooperation.

ECS 3430 The Economic Development of Cuba/Past and Present (3). Survey of the Cuban economy under capitalist and Marxist ideologies. Emphasis on the transition stage and on current policies of economic and social change. (F)

ECS 3431 Economics of the Caribbean Basin (3). Survey of the economic systems of the major countries of the Caribbean. Special attention devoted to current problems of economic growth and social transformation. Prerequisite: ECO 2013.

ECS 3432 Economic Integration/Caribbean (3). Analysis of the methods, meaning, and implications of economic integration in the Caribbean. Designed to enable the student to appreciate the trend toward regionalism and economic cooperation.

agriculture. Land-labor contracts. Prerequisites: Intermediate Microeconomics and Intermediate Macroeconomics or permission of the instructor.

**ECS 4014 Development Economics II** (3). Economic analysis of why some countries are rich and some are poor, why some countries grow fast and others do not. The role of ideas, infrastructure, R & D, and education play in economic growth. Prerequisites: ECO 3101 and ECO 3203 or permission of the instructor.

**ECS 5005 Comparative Economic Systems** (3). A critical evaluation of the design, goals, and achievements of economic policies in capitalist and socialist economies. Prerequisite: Permission of the instructor for undergraduates.

**ECS 5025 Economic Planning** (3). Analysis of planning methods in capitalist and socialist economies. Evaluation of macro and micro economic planning tools (input-output) and programming techniques. Theory and practice of economic development planning of agriculture, industrialization, foreign trade, and manpower. Prerequisite: Graduate standing or permission of the instructor.

**ECS 5406 Latin American Economies** (3). Economic theory and its applications to current economic issues of Latin America. Examines aggregate demand and supply, fiscal and monetary policies, international trade trends, and economic development. Taught in Spanish. May not be taken for credit towards a degree in Economics.
English

Donald Watson, Professor and Chairperson
St. George Tucker Arnold, Associate Professor
Joan L. Baker, Associate Professor, and Director of the Master of Arts in English Program
Lyne Barrett, Professor
Lynn M. Berk, Professor
Greg Bowe, Assistant Professor and Director of Undergraduate Writing
John Burrows, Instructor
Gisela Casines, Associate Professor and Associate Dean
Cynthia Chinelly, Lecturer
Maneck Daruwalla, Associate Professor
Carole Boyce Davies, Professor
John Dufresne, Professor
Denise Duhamel, Assistant Professor
Peggy Endel, Associate Professor
Mary Free, Associate Professor and Associate Chairperson
James Hall, Professor
Peter Hargital, Instructor
Kimberly Harrison, Assistant Professor and Director of Undergraduate Writing, Biscayne Bay Campus
Bruce Harvey, Associate Professor
Marilyn Hoder-Salmon, Associate Professor
Tomoko Hopkins, Associate Professor
Kenneth Johnson, Associate Professor and Assistant Vice President of Academic Affairs
Jeffrey Knapp, Instructor
Kathleen McCormack, Associate Professor
Campbell McGrath, Professor
Kathryn McKinley, Assistant Professor
Carmela Pinto McIntire, Associate Professor
Phil Marcus, Professor
Asher Z. Milbauer, Associate Professor
Robert Ratner, Instructor
Merl-Jane Rochelson, Associate Professor
Richard Schwartz, Professor
Ron Silverstein, Instructor
Kate Capshaw-Smith, Assistant Professor
Ellen Sprechman, Lecturer
Lester Standiford, Professor and Director of Creative Writing Program
Richard Sugg, Professor
James Sutton, Assistant Professor
Ellen Thompson, Assistant Professor
Dan Wakefield, Lecturer and Writer-in-Residence
Butler H. Waugh, Professor
Donna Weir, Assistant Professor
Barbara Weitz, Instructor
Feryal Yavas, Lecturer and Director of the Linguistics Program
Mehmet Yavas, Professor

Bachelor of Arts in English

Degree Program Hours: 120

Lower Division Requirements

Common Prerequisites
ENC 1101 Freshman Composition
ENC 1102 Literary Analysis

Recommended Courses
ENG 2012 Approaches to Literature
AML 2021 Survey of American Literature I
AML 2020 Survey of American Literature II
ENL 2011 Survey of British Literature I
ENL 2021 Survey of British Literature II

To qualify for admission into the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise accepted into the program.

Upper Division Requirements
(30 hours in 3000 and 4000 level courses)

Periods: (Two courses - Six hours)

a. One course in British literature before 1800
   or One course in American literature before 1800
b. One course in British literature after 1800
   or One course in American literature after 1860

Note: In addition to these courses, the Department may designate specific courses each semester which will fulfill these requirements.

Shakespeare: (One course - Three hours)
ENL 4320 Shakespeare: Histories
ENL 4321 Shakespeare: Comedies
ENL 4322 Shakespeare: Tragedies

Linguistics: (One course - Three hours)
LIN 3013 Introduction to Linguistics
or LIN 4680 Modern English Grammar

Electives: (18)

Upper division electives in writing, film, literature, and/or linguistics. The English Department recognizes a continuing obligation to insure that its majors write well. The Chairperson may require any English major to take the appropriate composition course. English majors may choose to take a general program of English studies or may select one of the Department's three areas of emphasis: literature, language and linguistics, or creative writing. Majors should choose their English courses and electives in consultation with their advisors, especially upon entering the program.

Additional Approved Electives: (30)

Students should consult with a departmental advisor.

Minor in English

Students majoring in any other discipline may minor in English.

There are several advantages for obtaining this minor. First, students expand their knowledge of literature written in English, thus, making their college education more complete and rounded. Second, because in the courses that the Department of English offers writing skills are emphasized, students will polish and perfect forms for the development of complex and sophisticated arguments through the analysis of literary work; the training students receive in these courses will help them point to strengths and weaknesses in any piece of writing.

Requirements

Fifteen hours in 3000 and 4000-level courses

Period Courses: (Two courses - Six hours)

1. One course in British literature before 1800
   or One course in American literature before 1860
2. One course in British literature after 1800
   or One course in American literature after 1860

Note: In addition to these courses, the Department may designate specific courses each semester which will fulfill these requirements

3. Three courses (nine hours) at the 3000 and 4000-level in the Department of English.
Course Descriptions

Definition of Prefixes

AML-American Literature; CRW-Creative Writing; ENC-English Composition; ENG-English-General; ENL-English Literature; FIL-Film Studies; HUM-Humanities; LIN-Linguistics; LIT-Literature;

AML 2011 Survey of American Literature I (3). Students read and discuss major American works written between 1620 and 1865. Works will be considered in an historical context.

AML 2020 Survey of American Literature II (3). Students will read and discuss major American works written between 1865 and the present. Works will be examined in an historical context.

AML 2602 African-American Literature (3). Offers a survey of African-American literature spanning its genesis to the present. Includes units on major eras and major figures in the development of the literary traditions. May be repeated.

AML 3004 American Folklore (3) An examination of the variety of American folklore from the very earliest expressions to the present.

AML 3032 The American Revolution in Literature (3). Study of writings created at the time of the American Revolution and those of later authors in order to evaluate how American writers have shaped our sense of the Revolution.

AML 3111 American Fiction to 1900 (3). Study of representative fiction by American authors from the Colonial period to 1900. Authors include Brown, Irving, Cooper, Hawthorne, Melville, Twain, Chopin, James, and others.

AML 3262 Modern Southern Short Story (3) The contributions of twentieth-century writers of the South to the short story genre. Includes the work of Faulkner, O’Connor, Welty and McCullers.

AML 3401 American Humor (3) This course examines the writings of American humorists from the beginnings to the present. Special attention is given to the writings of Twain and Thurber.

AML 3XXX American Literature and the Tradition of Dissent (3). Explores selected texts to examine the interactions between texts and social, cultural, and political currents from colonial times through the present.

AML 4014 Studies in 19th-Century African American Literature (3). An examination of literary works written by African Americans during the 19th Century. May be repeated with change of content.

AML 4024 Studies in 20th-Century African American Literature (3). An examination of literary works written by African Americans during the 20th Century. May be repeated with change of content.

AML 4120 Modern American Fiction (3) Study of American novels and short stories written in the twentieth century. Among the writers to be read are John Barth, Alice Walker and Flannery O’Connor.

AML 4154 Modern American Poetry (3) Study of American poetry written in the twentieth century. Among the poets to be examined are Elizabeth Bishop, Gwendolyn Brooks and Richard Wilbur.

AML 4213 Studies in Colonial and Early American Literature (3). Students read, discuss, and write about literature of the Colonial and Early American periods from the time of the Puritans through the period of the Early Republic.

AML 4216 Colonial Literature (3). American Literature from the settlement of the continent through 1776.

AML 4221 Early National Literature (3). Examines the major literary works of the period 1776-1825.

AML 4223 Antebellum Literature (3). Examines the writings of the period 1825-1860, including Hawthorne, Poe, and Harriet Jacobs.

AML 4245 Modernism and Post-Modernism in American Literature (3). The course provides working definitions of modernism and post-modernism and will consider how the writers of the twentieth century use those outlooks while addressing political, social, and personal issues.

AML 4263 Contemporary Southern Writers (3) Study of the literature of the modern South, its uniqueness and variety. Some of the writers included are Tennessee Williams, Eudora Welty and William Faulkner.

AML 4621 Major African American Writers (3). An examination of selected African American writers. May be repeated with change of content.

AML 4624 African American Women Writers (3). A study of the writings of African American women. May be repeated with change of content.

AML 4300 Major American Writers (3). Each section of this course will consider the works of one, two, or three major American writers. The writers studied in this course will change from semester to semester. The course may be repeated for credit.

AML 4306 Mark Twain (3) Study of the writings of American humorist and novelist Mark Twain including Roughing It, Innocents Abroad and Huckleberry Finn.

AML 4312 Hemingway, Fitzgerald and Faulkner (3) Analysis of the most important novels of Hemingway, Fitzgerald and Faulkner including The Sun Also Rises, The Great Gatsby and The Sound and the Fury.

AML 4503 Periods in American Literature (3). Individual sections will read and discuss works in the context of such historical settings as the colonial, federal, antebellum, reconstruction, or modern periods. May be repeated.

AML 4930 Special Topics in American Literature (3). An examination of different aspects of American literature; may be repeated with a change of content.

AML 5305 Major American Literary Figures (3). Each section will consider the lifework of several authors such as Hawthorne, Melville, Whitman, Twain, James, Faulkner, Mailer, Wright, Baldwin. May be repeated.

AML 5505 Periods in American Literature (3). The literature and criticism regarding one specified period of American Literature, such as Colonial, Federal, Transcendental, Antebellum, and Twentieth Century. May be repeated with change of period. Prerequisite: Permission of the instructor.

CRW 2001 Introduction to Creative Writing (3). Beginning course designed to acquaint students with elementary critical vocabulary and writing skills necessary for the writing of poems and short fiction. Students
may also be required to read and discuss published writing. Prerequisite: ENC 1101 and ENC 1102 or equivalent.

CRW 3111 Narrative Techniques (3). Analysis of and exercises in the elements of fiction: point of view, conflict, characterization, tone. Students will do various short assignments and one short story. Reading of published fiction will also be required. Prerequisite: CRW 2001.

CRW 3311 Poetic Techniques (3). Analysis of and exercises in poetic techniques. Students will write poems in which they employ one or more technical skills. Reading and discussion of published poems will be required. Prerequisite: CRW 2001.

CRW 4110 Writing Fiction (5). An intermediate course in writing fiction. May be repeated. Prerequisite: CRW 3111.

CRW 4310 Writing Poetry (5). An intermediate course in writing poetry. May be repeated. Prerequisite: CRW 3311.

CRW 4900 Independent Study in Creative Writing (3). Development and completion of an independent project in creative writing undertaken with the consent of the instructor. Prerequisite: CRW 2001.

CRW 4930 Special Topics in Creative Writing (1-5). A course designed to give students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisite: CRW 2001.

CRW 4931 Special Topics in Creative Writing (1-5). Gives students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisites: CRW 2001 and three hours of CRW on the 3000/4000 level.

ENC 1930 Essay Writing (3). A course in writing short descriptive, analytic, and argumentative essays. Does not fulfill core curriculum requirement. Students who have completed ENC 1101 or ENC 1102, or both, cannot receive credit for this course. Written work meets state composition requirement of 6,000 written words.

ENC 1101 Freshman Composition (3). Students will be introduced to the principles and process of expository, persuasive, and reflective writing. The first of a two-semester freshman composition sequence. Written work meets state composition requirement of 6,000 written words.

ENC 1102 Literary Analysis (3). A continuation of ENC 1101. Develops an analytical, aesthetic, and cultural sensitivity to literature and further explores the techniques of composition and library research.

ENC 1200 Business Letter and Reports (3). Intensive instruction and practice in the organization, content, and style of business letters of all kinds: special correspondence formats (bid proposals, customer relations), memoranda, feasibility reports, speeches, and group conference reports. Written work meets state composition requirement of 6,000 written words.

ENC 2210 Technical Writing (3). Effective presentation of technical and semi-technical information: technical description, information gathering, general technical reports, organization and development of information, process communication. Written work meets state composition requirement of 6,000 written words.

ENC 2301 Expository Writing (3). An advanced composition course in the techniques of exposition, argumentation, and persuasion. Written work meets state composition requirement of 6,000 written words.

ENC 3211 Report and Technical Writing (3). For business, professional, and scientific students needing practice in collecting, organizing, interpreting, and presenting factual material.

ENC 3311 Advanced Writing and Research (3). Provides instruction in the concepts and methods of critical response and argumentation, and in the formulation, analysis, and presentation of original research in extended academic papers. Written work meets state composition requirement of 6,000 written words. Prerequisites: ENC 1101, ENC 1102 or equivalent.

ENC 3317 Writing Across the Curriculum (3). An interdisciplinary, upper division, Gordon Rule, writing course in which students explore substance and style as they compose essays on subjects from various fields. Written work meets state composition requirement of 6,000 written words.

ENC 4240 Report Writing (3). Instruction and practice in writing reports for practical purposes. Collecting, organizing, and interpreting facts, then writing up findings in report form and style. Includes recommendation reports, use of graphical elements, writing manuals and instructions, physical research reports, feasibility reports, progress reports, other specialized report formats. Prerequisite: ENC 1200 or ENC 2210. Written work meets state composition requirement of 6,000 written words.

ENC 4241 Scientific Writing (3). Develops skills necessary to write laboratory reports, scientific proposals, articles, research reports, progress reports, and seminar presentations. Written work meets state composition requirement of 6,000 written words.

ENC 4355 Writing About Film (3). Introduces students to writing critical reviews and analyses on narrative film employing different perspectives, formats, and lengths inherent in the written discussions of film. Prerequisites: ENC 1101 and ENC 1102.

ENC 4930 Special Topics in Composition (3). Allows students to refine nonfiction writing skills in a variety of genres and roles. May be repeated. Prerequisites: ENC 1101, ENC 1102 or equivalent. Written work meets state composition requirement of 6,000 written words.

ENG 2001 Modes of Inquiry (3). A research and report writing course. A final research project is required. Basic bibliographical tools, library use, and technical and scientific reporting will be the main subject matter. There will also be an emphasis on style, structure, and tone in a variety of research modes.

ENG 2012 Approaches to Literature (3): In this course, students will study the process of analyzing the meaning and artistry of literary texts. They will read and interpret representative poems, short stories, and plays. Written work meets state composition requirement of 6,000 written words.

ENG 2100 Introduction to Film (3). This course will introduce students to the basic artistic and compositional elements of film and the analysis of the relationship between technical and aesthetic aspects of film. Prerequisite: ENC 1101.
ENG 3138 The Movies (3). Viewing and discussion of films, with attention to cinematic ways of story-telling and to the popular film as an expression of cultural values. May be retaken for credit with change of content.

ENG 4013 History of Literary Criticism (3). A study of the major texts in literary criticism and theory from Plato to the present.

ENG 4022 Rhetoric and Poetics (3). Ancient and modern theory and practice in discussing the formal properties of elevated language.

ENG 4023 Semiotics and Narratology (3). This course studies Semiotics (the science of signs and sign system) and Narratology (theories about the nature of narratives) in an attempt to characterize the nature of how a story gets told/shown.

ENG 4043 Contemporary Literary Theory and Criticism (3). An examination of the works of recent literary theorists.

ENG 4119 Film Humor and Comedy (3). Examines the nature of humor and comedy and its relation to film narrative. Films from all periods of cinematic history will be viewed.

ENG 4121 History of the Film (3). Discussion, with examples, of the development of cinematic art, from its European and American beginnings to its place as a major world art form.

ENG 4132 Studies in the Film (3). Intensive examination of the work of a particular nation, group, or director. May also explore various film genres, e.g., documentary, horror, the Western. With change of content, may be retaken for credit.

ENG 4134 Women and Film (3). An examination of how women have been represented in dominant commercial films and how women filmmakers have responded to the appropriation of the image of women through alternative film narratives.

ENG 4135 The Rhetoric of Cinema (3). This is an examination of how films are constructed cinematically and narratively to involve audiences on aesthetic, intellectual and ideological levels.

ENG 4906 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations, with the consent of the instructor.

ENG 4936 Honors Seminar (3). Designed specifically for honors students and other superior, highly motivated students. Seminar topics will vary from semester to semester.

ENG 4949 Cooperative Education in English (1-3). A student majoring in English may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

ENG 5950 Special Projects in English (1-3). Pursuit of projects involving relationship of profession to university and/or community and/or research issues in pedagogy, literature, or other areas. Prerequisites: consent of Graduate Director or Department Chair. Corequisite: Consent of project supervisor.

ENL 2011 Survey of British Literature I (3). Students will read and discuss major British works written from the Old English period through 1750. Works will be examined within an historical context.

ENL 2021 Survey of British Literature II (3). Students will read and discuss major British works written between 1750 and the present. The works will be examined in an historical context.

ENL 3112 Development of the Novel: The 18th Century (3). A study of the development of the novel in England from the early attempts by Defoe and others to the Gothic novel.

ENL 3122 Development of the Novel: The 19th Century (3). A study of the development of the novel in England from Austen to Henry James; some of the novelists to be discussed are Bronte, Eliot and Dickens.

ENL 3132 Development of the Novel: The 20th Century (3). A study of the development of the novel in England from Conrad to the present; some of the novelists to be discussed are Lawrence, Woolf, and Joyce.

ENL 3261 19th Century British Women Novelists (3). Examines fiction written by women in the 19th century, including classical realist, gothic, sensation, working-class, and New Woman novels. Authors include Austen, Eliot, Bronte, and Gaskell.

ENL 3XXX Proseminar in English Studies (3). An introduction to literary studies, examining the history and structure of the discipline practice in various kinds of formal analyses and critical writing, and literary research.

ENL 3XXX Texts and Contexts: British Literature to 1660 (3). Explores the development of British literature from its beginnings to 1660 through intensive study of selected texts; examines interactions between texts and social, cultural, or political currents.

ENL 3XXX Texts and Contexts: British Literature Since 1660 (3). Explores the development of British literature of the last three centuries through intensive study of selected texts; examines interactions between texts and social, cultural, and political currents.

ENL 4161 Renaissance Drama (3). A study of non-Shakespearian drama of the English Renaissance. Among the dramatists to be read are Jonson, Kyd, Marlowe and Webster.

ENL 4171 Restoration and 18th Century Drama (3). Representative plays from the period 1660-1800. May include plays by Dryden, Etherege, Wycherley, Otway, Congreve, Farquhar, Gay, Fielding, Goldsmith and Sheridan.

ENL 4210 Studies in Medieval Literature (3). Students will read, discuss and write about works of medieval English literature from the time of Beowulf to that of Chaucer.

ENL 4212 Medieval Women Writers (3). The contributions of medieval women to literary history are examined. Among the writers to be studied are Margery Kemp and Marie de France.

ENL 4222 Renaissance: Prose and Poetry (3). A study of Renaissance poetry and prose to suggest their contributions to literary history. Among the writers to be read are Wyatt, Sidney, Donne, More and Bacon.

ENL 4223 Studies in Renaissance Literature (3). Students will read, discuss, and Renaissance excluding William Shakespeare.

ENL 4225 Spenser (3). Study of the works of one of the most important figures of the sixteenth century including The Faerie Queen, The Shepheards Calender and Amoretti.
ENL 4230 Studies in Restoration and 18th-Century Literature (3). An in-depth study of the major figures in English Literature from 1660 to 1800, a period of transition between the Renaissance and modern times. Some of the writers who will be studied are Dryden, Pope, Swift, Jonson, and Fielding.

ENL 4241 Romanticism I (3). Focuses on the first generation of Romantic writers, including Blake, Wordsworth, Wollstonecraft, and Coleridge.

ENL 4242 Romanticism II (3). Focuses on the second generation of Romantic writers, including Byron, Keats, Shelley, and Wollstonecraft-Shelley.

ENL 4243 Studies in Romanticism (3). Examination of recurring themes and motifs in Romantic literature.

ENL 4251 Victorian Literature (3). Study of the poetry and prose of the Victorian Age (1832-1901). Among the authors to be read are Dickens, Eliot, Carlyle, Ruskin, Arnold, Tennyson, and Browning.

ENL 4254 Late Victorian Fiction (3). An examination of the variety of fiction written from 1880-1901. Some of the writers to be studied include Wells, Zangwill, Gissing and D’Arcy.

ENL 4260 Studies in 19th-Century British Literature (3). Students will read, discuss, and write about literary works produced by British Romantic and Victorian writers between the Age of Wordsworth and the death of Queen Victoria.

ENL 4273 Studies in Modern British Literature (3). This course focuses on the literature of the 20th Century, limiting itself to British writers, but including the various genres of the modern and post modern periods.

ENL 4274 Yeats and His Contemporaries (3). Studies the major works of William Butler Yeats and some of his contemporaries and associates.

ENL 4303 Major British Writers (3). Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENL 4311 Chaucer (3). Study of Geoffrey Chaucer’s contributions to English literary history. Among the works to be examined are *The Canterbury Tales*, *The Parliament of Fowls* and *The Book of the Duchess*.

ENL 4320 Shakespeare: Histories (3). Reading and informal dramatic interpretation of representative plays.

ENL 4321 Shakespeare: Comedies (3). Reading and informal dramatic interpretation of representative plays.

ENL 4322 Shakespeare: Tragedies (3). Reading and informal dramatic interpretation of representative plays.

ENL 4341 Milton (3). Study of the poetic and prose contributions of John Milton including the influence of the literature of antiquity on him and influence on subsequent poets.

ENL 4370 Virginia Woolf and Her Circle (3). Focusing on the works of Virginia Woolf. This course also explores how the members of the Bloomsburg Circle influenced this English novelist.

ENL 4503 Periods in English Literature (3). Individual sections will read a group of literary works from one specified period of English literature, such as the Medieval, Renaissance, Victorian, twentieth-century and contemporary periods. May be repeated with change of period.

ENL 4930 Special Topics in English Literature (3). An examination of the different aspects of English literature. May be repeated with change of content.

ENL 5220 Major British Literary Figures (3). Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENL 5505 Periods in English Literature (3). The literature and criticism regarding one specified period of English Literature, such as Medieval, Renaissance, Victorian, Twentieth Century, and Contemporary. May be repeated with change of period. Prerequisite: Permission of the instructor.

FIL 3006 Introduction to Film (3). The first required course for the Film Studies Certificate Program. Introduces students to cinema as an institution as well as its role as textual narrative. Provides students with an understanding of the ways films can be analyzed and understood. Prerequisite: Must be enrolled in Certificate Program.

FIL 4940 Internship in Film Studies (1-12). Students enrolled in the Film Studies Certificate Program work at the FIU Film Society and related film activities on archival research as well as working on organizing various aspects of the FIU Miami Film Festival including the concurrent seminars. Prerequisites: Introduction to Film Studies and History of Film.

LIN 2002 Introduction to Language (3). The study of the nature of human language, its origins, and its relation to thinking behavior, and culture. An examination of the similarities and differences between spoken human languages, animal languages, and nonverbal communication (including sign language); of language variation between dialects and between different historical stages of a language; and of writing systems.

LIN 2612 Black English (3). This course covers the varieties of Black English spoken in the Americas, the Caribbean, and West Africa. Focuses on the nature of these English varieties and their social uses within the community, literature, and educational system.

LIN 3013 General Linguistics (3). Study of the sounds, vocabulary, and sentence patterns of standard modern English. Other topics include meaning, social and regional dialects, language change, and style. Subsequent credit for LIN 3010 or SPN 3733 will not be granted.

LIN 3670 Grammatical Usage (3). The study of formal, traditional usage of English grammar and mechanics. Prerequisites: ENC 1101 and ENC 1102.

LIN 4122 Historical Linguistics (3). The study of linguistic methodology for determining historical and genetic relationships among languages. Prerequisite: Introductory course in Linguistics or permission of the instructor.

LIN 4321 General Phonology (3). The study of phonological processes in language and linguistic methodology for phonological analysis. Prerequisite: Introductory course in Linguistics or permission of the instructor.

LIN 4430 General Morphology and Syntax (3). The study of linguistic
methodology for determining the morphological and syntactic structures of languages. Prerequisite: Introductory course in Linguistics or permission of the instructor.

LIN 4612 Black English (3). This course is a linguistic approach to the characteristics and functions of Black English and the current social controversies surrounding it. Prerequisite: Permission of the instructor.

LIN 4651 Gender and Language (3). Examines the evidence on a variety of questions regarding women and language, including women's speech in English and other languages, sexist language, and the relationship between language and societal attitudes towards women.

LIN 4680 Modern English Grammar (3). Practical study of syntax.


LIN 4801 Semantics (3). The study of the semantic structure of languages. The structures underlying the meanings of words and underlying syntactic structures. Prerequisite: Introductory course in Linguistics or permission of the instructor.

LIN 4905 Independent Study (VAR). This course is designed for students who wish to pursue specialized topics in advanced Linguistics: phonetics, phonology, morphology, syntax, semantics, psycholinguistics, historical linguistics, or language contact. Prerequisite: Introductory course in Linguistics or permission of the instructor.

LIN 5211 Applied Phonetics (3). Study of sounds and suprasegmentals of English. Comparison of phonetic features of English with those of other languages. Universal constraints and markedness in learning second/foreign language pronunciation. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIT 2010 Introduction to Fiction (3). This course offers an introduction to the basic elements of prose fiction: symbolism, plot, imagery, structure, characterization, style, point of view. Prerequisite: ENC 1101.

LIT 2030 Introduction to Poetry (3). This course offers an introduction to the basic elements of poetry: imagery, figurative language, diction, style, tone, prosody. Prerequisite: ENC 1101.

LIT 2040 Introduction to Drama (3). This course will introduce the student to the basic elements of drama and its various forms, modes, and techniques. Students will read 10-12 plays by representative English, American, and European authors. Prerequisite: ENC 1101.

LIT 2110 World Literature I (3). Surveys the literature of many cultures from the beginning of written texts through the 16th century. Usually excludes British works.

LIT 2120 World Literature II (3). This course surveys the literature of Asia and Europe from the 17th century to the present. It gives attention to the themes and world views these works embody, as well as to their artistry.

LIT 3022 The Short Novel (3). An examination of the variety of short novels that have been written in the past three centuries. Short novels from Europe and the Americas are discussed.

LIT 3050 Forms of Satire (3). This course will discuss the history and the different forms of satire from the Romans to the present, including the works of Horace, Juvenal, Swift, and Byron.

LIT 3132 Arthurian Literature (3). The legend of King Arthur is examined both in the original medieval version and in the subsequent retelling.

LIT 3145 Continental Novel (3). A study of the works of the major European novelists of the 19th and 20th centuries. Some of the writers whose work are read in translation are Tolstoy, Mann, and Flaubert.

LIT 3170 Topics in Literature and Jewish Culture (3). An examination of literature by or about Jews in a variety of national, cultural, or historical contexts. May be repeated with change of content.

LIT 3190 Survey of Caribbean Literature (3). The narratives, poetry, and fiction from the beginning of the Caribbean literary tradition to the present time.

LIT 3200 Themes in Literature (3). Individual sections will read and discuss works relating to topics of current and enduring interest. Discussion of literature as it reflects the identities of men and women: their places in families in past, present, and future societies, in the natural world, and the cosmic order. May be repeated.

LIT 3331 Classics of Children's Literature (3). An examination of literary texts that form part of the imaginative experience of children, as well as part of our literary heritage.

LIT 3383 Women in Literature (3). Students will examine the images of women created by European and American writers. The course will also explore the roles, historical and contemporary, of women writers.

LIT 3384 Caribbean Women Writers (3). Examination of the writings of Caribbean women.

LIT 3702 Major Literary Modes (3). Individual sections will read and discuss the literary expression of heroic, tragic, comic, satiric, mythic, realistic, or other formalized views of human existence. May be repeated.

LIT 3801 equivalents. A study of the ways literary texts articulate the values of their society.

LIT 3930 Special Topics (3). A course designed to give students an opportunity to pursue special studies not otherwise offered. May be repeated with change of content.

LIT 4001 Major Literary Genres (3). Individual sections will read and discuss the form and development of novels, drama, poetry, short fiction, or such special forms as biographies, folk songs and tales, or essays, among other genres. May be repeated.

LIT 4041 17th Century Drama (3). A study of Western European drama of the seventeenth century including Calderon, Jonson, Tirso de Molina, Corneille, Racine, Wycherley, and Congreve.

LIT 4188 Regional Literature in English (3). Individual sections will discuss English writing in Ireland, Scotland, Wales, Canada, the Caribbean, India, sub-Saharan Africa, and Oceania, as well as distinctive regions in England and America. May be repeated.

LIT 4192 Major Caribbean Authors (3). Examines the literary achievements of major writers of the Caribbean region in the social, political, and cultural contexts of the English, French, and Dutch Caribbean.
LIT 4351 Major African Writers (3). Surveys a variety of literary texts relevant to life in post-colonial Africa.

LIT 4356 Literature of the Cuban Diaspora (3). A survey of literatures written by Cuban-Americans and other writers of the Cuban diaspora. Texts will be in English or English translations.

LIT 4364 Post Totalitarian Literature (3). Covers the major literary works which have been published in the Czech Republic and Slovakia since the fall of Communism there in 1989. Prerequisite: Permission of the instructor.

LIT 4382 Women in Post Communist Eastern Europe (3). An examination of the role of women in Eastern Europe, particularly in the former Czechoslovakia, since the fall of Communism there in 1989.

LIT 4403 Literature Among the Arts and Sciences (3). Individual sections will relate the study of literature to other disciplines in the humanities, fine arts, the social and natural sciences. May be repeated.

LIT 4420 The Psychological Novel (3). This course concentrates on novels which explore the complexities of the human psyche.

LIT 4930 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 4931 Special Topics in Women’s Literature (3). An examination of different aspects of literature by women. May be repeated with a change of content.

LIT 4950 Czech Study Abroad (3). Covers the major literary movements and figures in the Czech Republic and Slovakia that have influenced the Western literary canon. The course is taught by FIU and Czech faculty. Prerequisite: Permission of the Instructor.

LIT 5358 Black Literature and Literary/Cultural Theory (3). Examines 20C. black literary critical thought. Students interrogate cultural theories and literary texts from African, Caribbean, African-American, Black British and Afro-Brazilian communities. Prerequisites: Graduate standing.

LIT 5359 African Diaspora Women Writers (3). Study of black women writers from throughout the Diaspora from the early 19th century to present. Prerequisites: Graduate standing.

LIT 5934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.
Environmental Studies
David Bray, Associate Professor and Chairperson
Bradley Bennett, Associate Professor
Mahadev Bhat, Associate Professor
Allee Clarke, Assistant Professor
Constantine Hadjilambrinos, Associate Professor
Krishnaswamy Jayachandran, Assistant Professor
Joel Heininen, Associate Professor
Stephen P. Leatherman, Professor (International Hurricane Center)
Michael McClain, Assistant Professor
Jack Meeder, Research Scientist (Southeast Environmental Research Center)
John Parker, Professor
Tom Pliske, Instructor
Gary Rand, Associate Professor
Mike Ross, Research Scientist (Southeast Environmental Research Center)
Keqi Zhang, Research Scientist (International Hurricane Center)

Affiliated Faculty
Jerry Brown, Sociology/Anthropology
Yong Cai, Chemistry
Janet Chernenk, Sociology/Anthropology
Jim Fourquarean, Biological Sciences
Piero R. Gardinali, Chemistry
Kevin Hill, Political Science
James Huchinson, Religious Studies
Rudolf Jaffe, Chemistry
Jeff Joens, Chemistry
Ronald Jones, Biological Sciences
Suzanne Kuptor, Biological Sciences
Rod Neumann, International Relations
Steve Oberbauer, Biological Sciences
George O'Brien, Education
Betsy Smith, Social Work
Berrin Tansel, Civil and Environmental Engineering
Joel Trexler, Biological Sciences
Bill Vickers, Sociology/Anthropology

This department prepares students to work in professions with an environmental focus. The Bachelor of Science degree emphasizes the chemical and ecological aspects of environmental analysis. The Bachelor of Arts degree is broader, with an emphasis on the political, social and economic aspects of environmental issues. This is an interdisciplinary program and faculty represent disciplines from chemistry to anthropology. It also relies upon affiliated faculty in other departments for some courses.

Bachelor of Science in Environmental Studies

Degree Program Hours: 120

Lower Division Preparation

Common Prerequisites
BSC 1010 General Biology I
BSC 1010L General Biology I Lab
BSC 1011 General Biology II
BSC 1011L General Biology II Lab
CHM 1045 General Chemistry I
CHM 1045L General Chemistry I Lab
CHM 1046 General Chemistry II
CHM 1046L General Chemistry II Lab
GLY 1010 Introduction to Earth Science
GLY 1010L Introduction to Earth Science Lab and
EVR 3010 Energy Flow in Natural and Man-made Systems or
PHY 2023 Survey of General Physics
MAC 2132 Pre-Calculus Mathematics or
MAC 1105 College Algebra and
MAC 1114 Trigonometry

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Lower or Upper Division Requirements
ECO 2023 Microeconomics 3
STA 3111 Statistics I 4
STA 3112 Statistics II 2 or
MAC 2311 Calculus I 4
CHM 2200 Survey of Organic Chemistry 3
CHM 2200L Survey of Organic Chemistry Lab I or
CHM 2210 Organic Chemistry I 4
CHM 2210L Organic Chemistry I Lab 1 and
CHM 2211 Organic Chemistry II 3
CHM 2211L Organic Chemistry II Lab 1

Upper Division Program

Recommended Courses
ANT 3403 Cultural Ecology 3
ENC 2210 Technical Writing 3
POS 2042 American Government 3 or
POS 3424 Legislative Process 3
REL 3492 Earth Ethics 3

Required Courses
Two of the following four courses: 3
EVR 4026 Ecology of Biotic Resources
EVR 4231 Air Resources
EVR 4310 Energy Resources
EVR 4592 Soils and Ecosystems Lab

EVR 4211 Water Resources
EVR 4211L Water Resources Lab
PCB 3043 Ecology
PCB 3043L Ecology Lab
CHM 3120 Analytical Chemistry
CHM 3120L Analytical Chemistry Lab
ECP 3302 Introduction to Environmental Economics 3
PUP 4203 Environmental Politics 3 or
EVR 4352 U.S. Environmental Policy 3
EVR 4920 Environmental Studies Seminar 1
EVR 4905 Independent Study 2
Additional Environmental Studies Science Courses 6
Electives 13

Students are urged to develop an area of specialization of 12 to 15 credits or a minor in consultation with an advisor. EVR 4592 and EVR 4211 must be taken with the corresponding lab.

Total 60 semester hours

Bachelor of Arts in Environmental Studies

Degree Program Hours: 120

Lower Division Program

Recommended Courses
PSC 1515 Energy and the Natural Environment

Common Prerequisite
ECO 2023 Principles of Microeconomics

Two of the following:
BSC 1011/1011L Organismal Biology and Lab
CHM 1032/1032L Chemistry & Society and Lab
GLY 1010/1010L Introduction to Earth Science

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.
Upper Division Program

Recommended Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ANT 3403</td>
<td>Cultural Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3211</td>
<td>Report &amp; Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>POS 2042</td>
<td>American Government or</td>
<td></td>
</tr>
<tr>
<td>POS 3424</td>
<td>Legislative Process</td>
<td>3</td>
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</table>

Required Courses: (32)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 3010</td>
<td>Energy Flow in Natural and Man-made Systems</td>
<td>3</td>
</tr>
<tr>
<td>EVR 3011</td>
<td>Environmental Resources and Pollution</td>
<td>3</td>
</tr>
<tr>
<td>EVR 3011L</td>
<td>Environmental Resources and Pollution Lab</td>
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<tr>
<td>EVR 3013</td>
<td>Ecology of South Florida</td>
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<tr>
<td>EVR 3013L</td>
<td>Ecology of South Florida Lab</td>
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</tr>
<tr>
<td>EVR 4415</td>
<td>Population &amp; Environment Issues</td>
<td>3</td>
</tr>
<tr>
<td>EVR 4352</td>
<td>US Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>PUP 4203</td>
<td>Environmental Politics</td>
<td>3</td>
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<tr>
<td>REL 3492</td>
<td>Earth Ethics</td>
<td>3</td>
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<tr>
<td>STA 3111</td>
<td>Statistics I</td>
<td>4</td>
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<tr>
<td>ECP 3302</td>
<td>Introduction to Environmental Economics</td>
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<tr>
<td>EVR 4411</td>
<td>Human Organization &amp; Ecosystems Management</td>
<td>3</td>
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<tr>
<td>EVR 4905</td>
<td>Independent Study</td>
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<tr>
<td>EVR 4920</td>
<td>Environmental Seminar</td>
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</tr>
<tr>
<td>EVR 4869L</td>
<td>Environmental Problem Solving Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

Area of Specialization Courses: (12)

The student must take at least twelve additional credits in an approved area of specialization, such as energy and resource management, human ecology, environmental education, environmental policy, international environmental issues, geography or ecology. Six of the 12 credits must be from EVR courses. Note: Minors may be substituted for an area of specialization.

Electives: 16

Total: 60 semester hours

Minor In Environmental Studies

Required Courses

1. Four of the following approved courses, including at least two of the first four:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EVR 4026</td>
<td>Ecology of Biotic Resources</td>
<td>3</td>
</tr>
<tr>
<td>EVR 4211</td>
<td>Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>EVR 4231</td>
<td>Air Resources</td>
<td>3</td>
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<tr>
<td>EVR 4310</td>
<td>Energy Resources</td>
<td>3</td>
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<tr>
<td>EVR 4401</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>EVR 4323</td>
<td>Restoration Ecology</td>
<td>3</td>
</tr>
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</table>

2. One of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 4415</td>
<td>Population and Environment Issues</td>
<td>3</td>
</tr>
<tr>
<td>EVR 4321</td>
<td>Sustainable Resource Development</td>
<td>3</td>
</tr>
<tr>
<td>EVR 4352</td>
<td>US Environmental Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits: 15

Grades of 'C' or better required for all courses. A list of additional approved environmental science courses, subject to change, is available in the Department of Environmental Studies.

Cooperative Education

Students seeking the baccalaureate degree in environmental studies may also take part in the Cooperative Education Program conducted in conjunction with the Department of Cooperative Education in the Division of Student Affairs. The student spends one or two semesters fully employed in industry or a governmental agency. For further information consult the Department of Cooperative Education.

Environmental Internships

Students interested in job-related academic internships should enroll in the Environmental Studies office. For details on compensation, benefits, and academic credit, contact Dr. Jack Parker.

Course Descriptions

(Course descriptions are also found in catalog sections of all participating departments. For assistance see an advisor.)

Definition of Prefixes

EVR-Environmental Studies. F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

EVR 1001 Introduction to Environmental Sciences (3). A physical science course for non-science majors, emphasizing air and water pollution, water resources, solid waste management, and energy resources. (F,S,SS)

EVR 1001L Introduction to Environmental Sciences Lab (1). Laboratory analysis and field trips on topics and concepts covered in Introduction to Environmental Sciences. (F,S,SS)

EVR 1017 The Global Environment and Society (3). A broad introduction to the impact of social and economic processes on the global environment, including historical and comparative dimension. (F,S)

EVR 3010 Energy Flow in Natural and Man-made Systems (3). A course for non-science majors, examining energy use and efficiency, nuclear and renewable energy sources (including solar energy), and their environmental impacts. Prerequisite: College algebra or equivalent. (F,S)

EVR 3029 The Everglades (3). An interdisciplinary examination of the Everglades system, including natural history, human history, esthetics, and politics/policy of restoration.

EVR 3011 Environmental Resources and Pollution (3). A course for non-science majors, focusing on dynamics of pollution and environmental toxicology with emphasis on energy consumption and production, solid wastes, and air and water resources. (F,S,SS)

EVR 3011L Environmental Science: Pollution Lab (1). Laboratory and field analyses of topics and concepts covered in EVR 3011. Corequisite: EVR 3011. (F,S,SS)

EVR 3013 Ecological of South Florida (3)

EVR 3013L Ecological of South Florida Lab (1). A course for non-science majors, offering an introduction to the ecology of South Florida through lectures and a series of field trips into several unique ecosystems, such as the Everglades, hardwood hammocks, and coastal regions. The course also deals with natural resource conservation, wildlife management, endangered species, and wilderness issues. (F,S,SS)

EVR 3492 Asian Environmental Issues (3). An overview of emerging environmental issues in Asian countries. Discussion of cultural, economic, and political systmes of the region and their influence on the environment.

EVR 3931 Topics in Environmental Studies (3). An intensive analysis of a current environmental topic. Course may be repeated with change in content.

EVR 4949/EVR 4949 Cooperative Education in Environmental Studies (1-3). One semester of full-time supervised work in an outside laboratory taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluations will be required of each student. (F,S,SS)

EVR 4026 Ecology of Biotic Resources (3). The study of renewable natural resources of the earth's biomes, particularly those of tropical forests, the factors influ-
EVR 4211 Water Resources (3). A seminar dealing with various aspects of water use, water pollution problems, chemistry and ecology of South Florida's waters. Ecology is recommended. Prerequisites: CHM 1045 and CHM 1046 or equivalent and general biology. (F)

EVR 4211L Water Resources Lab (1). Laboratory course on procedures currently suitable and widely accepted for physical, chemical, and biological methods in the examination of water. Prerequisite: CHM 1045 & CHM 1046 or equivalent and General Biology. (S)

EVR 4231 Air Resources (3). Common air pollutants - their sources and methods of control. Different legislative and administrative approaches will be studied. Prerequisite: CHM 1045 and CHM 1046 or equivalent. (S)

EVR 4310 Energy Resources (3). Seminar dealing with power and energy production in modern society, fundamental energy relationships of industrial and domestic processes. Prerequisite: EVR 3010 or PHY 2023 or equivalent. (S)

EVR 4321 Sustainable Resource Development (3). An overview of social, economic and ecological approaches to sustainable resource development. Examines various policies for harmonizing economic growth and environmental sustanability. (S)

EVR 4323 Restoration Ecology (3). Principles and practices of environmental restoration, recreation and enhancement. Examines ecological theory that relates to restoration through case studies from southern Florida. Prerequisites: EVR 3013 or PCB 3043 or permission.

EVR 4351 U.S. Energy Policy (3). Policies governing the utilization of energy in the U.S. Focuses on the physical, political and social constraints that shape energy policy in this country. Prerequisites: EVR 3010 or permission of the instructor.

EVR 4352 U.S. Environmental Policy (3). Introduction to U.S. environmental policy. Reviews primary U.S. environmental legislation and the role of regulation. (S)

EVR 4401 Conservation Biology (3). Applies modern theory from ecology and population genetics to conservation issues. Topics include population viability studies, reserve design, forms of rarity, and policy issues. Prerequisites: BSC 1010 and BSC 1011. (S)

EVR 4411 Human Organizations and Ecosystem Management (3). Environment aspects of organizational theory and strategic management in indigenous and other local communities, non-governmental organizations, government, and the private sector are discussed. Prerequisite: An introductory Environmental Studies course.

EVR 4415 Population and Environment Issues (3). Examines the history, current status and projected growth of the human population in relation to environmental issues. Prerequisite: College algebra and STA 3111 (or equivalent). (F)

EVR 4592 Soils and Ecosystems (3). A review of basic soil science concepts; analyses of basic physical and chemical properties of soils, emphasizing soils in South Florida ecosystems. Prerequisite: BSC 1010 and CHM 1045, or permission of the instructor.

EVR 4592L Soils and Ecosystems Lab (1). Laboratory exercises provide soil characterization techniques used in soil science and complement the lectures by carrying out experiments illustrating soil science concepts, soil formation, soil properties, and soil nutrients cycling. Prerequisite: CHM 1046, BSC 1011, CHM 3120 and their corresponding labs. Corequisite: EVR 4592.

EVR 4869L Environmental Problem Solving Lab (2). Provides first-hand experience in solving environmental problems (problem definition, study design, data collection, analysis & reporting). Includes use of case study, social survey, computer modeling and GIS techniques. Prerequisites: STA 3111, ECO 2023 and either EVR 3010, EVR 3011 or EVR 3013.

EVR 4905 Research and Independent Study (Var). Student develops and carries out research project with guidance from professor. Permission of the instructor.

EVR 4920 Environmental Studies Seminar (1). Series of talks by FIU and external experts addressing both development of professional skills and current environmental topics. Students prepare short presentations.

EVR 4934 Special Topics (1-3). Advanced undergraduate level course dealing with selected environmental topics. Course may be repeated with change in content. (S)

EVR 4XXX Introduction to GIS (3). To study the functionalities of the popular desktop GIS programs Arc view, as well as the basic concepts of GIS and DRMS. The focus will be on data acquisition, analysis and synthesis using GIS approach. Prerequisites: Permission of Instructor.


EVR 5065 Ecology of Costa Rican Rainforest (3). Intensive study of Central American tropical forest ecosystems conducted for two weeks in Costa Rica in sites ranging from lowland to high mountains. Primarily for teachers. Prerequisites: Graduate standing or permission of the instructor. (SS)

EVR 5066 Ecology of the Amazon Flooded Forest (3). Study of the ecology of the flooded forest with emphasis on the relationships between plants and animals and the annual flooding cycle. The course includes a two-week field study at river camp in Peru. Prerequisites: Graduate standing or permission of the instructor. (SS)

EVR 5067 Tropical Forest Conservation and Utilization (3). Distribution and classification of tropical forest ecosystems, their description and the ecological principles governing their function. Factors influencing tropical forest utilization and destruction, and strategies for sustainable use and conservation. Prerequisites: EVR 5355 or permission of the instructor.

EVR 5236 Air Pollution Dynamics (3). A course designed to give an understanding of the fates of atmospheric pollutants. Scavenging processes in the atmosphere; radiation, residence times, chemical reactions, global transport process, point source dispersion and modeling calculations. Prerequisite: EVS 3360 or EVR 4231.

EVR 5300 Topics in Urban Ecology (3). Topics include urban and suburban ecosystems emphasizing energy relations, ecological functions of urban landscapes, urban wildlife, urban forestry and ecological issues relevant to human health and well-being. Prerequisites: PCB 3043 or permission of the instructor.
EVR 5313 Renewable Energy Sources (3). An analysis of renewable energy sources and energy efficiency including wind, biomass, geothermal, hydroelectric, solid waste, solar heating, solar cooling, and solar electricity. Prerequisite: Permission of the instructor.


EVR 5320 Environmental Resource Management (3). The scientific and philosophical basis for the management of renewable and non-renewable energy, mineral, air, water, and biotic resources. Prerequisite: Graduate standing or permission of the instructor. (F)

EVR 5330 Tropical Ecosystems Management (3). Analyses the dimensions of tropical ecosystems management. Organizational and institutional dynamics of the management of tropical forests, agroecosystems, and coastal areas are covered. Prerequisites: Permission of Instructor.

EVR 5350 International Organizations & Environmental Politics (3). The role of international organizations in environmental politics and the process of their formation and change in response to environmental problems. Prerequisite: Graduate standing or permission of the instructor.

EVR 5353 International Energy Policy (3). Focuses on the distribution of global energy resources and related issues. A comparison of the energy policies of various countries serves as the basis for exploring alternative energy policy approaches. Prerequisites: EVR 5355 or permission of the instructor.

EVR 5355 Environmental Resource Policy (3). A survey of international and national environmental policy and the legal, economic, and administrative dimensions of international accords and selected U.S. law. Prerequisites: EVR 5320 or permission of the instructor. (S)

EVR 5360 Protected Area Management (3). Interdisciplinary examination of ecological, administrative, and socio-economic aspects of managing protected natural areas. Case studies from developed and developing nations.

EVR 5405 International Biological Conservation Accords (3). Survey of international biological conservation agreements. Topics include bilateral migratory wildlife agreements, the Berne Convention on Migratory Wildlife, CITES, Ramsar, the UNCED Biodiversity Treaty and the Statement of Principles on Forests. Prerequisites: EVR 5355 or permission of the instructor.

EVR 5406 U.S. Endangered Species Management (3). History and implementation of the U.S. Endangered Species Act. Topics include legal and administrative aspects, reauthorization, procedures for recovery planning and conflict resolution, and biological measures of success. Prerequisites: EVR 5355 or permission of the instructor.

EVR 5410 The Human Population and Earth's Ecosystems (3). Explores the impact of the human population of Earth's ecosystems. Reviews current population data at global, regional, and local scales. Includes study of specific South Florida carrying capacity issues.

EVR 5907 Research and Independent Study (VAR). The student works with a professor on a research project. Variable credit.

EVR 5935 Special Topics (VAR). A graduate-level course dealing with selected environmental topics. The content will not necessarily be the same each time the course is offered.

EVR 5936 Topics in Environmental Studies (3). An analysis of several current environmental topics. Recommended for primary and secondary school teachers.

EVS 5145 Ecotoxicology (3). Fate of chemicals and their acute and chronic toxicological effects on aquatic and wildlife systems. Dose-response relationships, bioavailability, bioconcentration, microbial degradation, and biomonitoring. Prerequisite: One year of biology and one year of chemistry and CHM 2200 and lab or permission of the instructor.

EVS 5194 Applied Soil Biology (3). Examines biology of soil organisms and biologically-mediated chemical transformations occurring in soil ecosystems. Prerequisite: BSC 1011.

EVS 5637 Ecological Risk Assessment (3). Evaluation of risks of foreign chemicals to aquatic and terrestrial systems. Concepts and methodology used in the hazard and risk assessment of toxic effluents, chemical/oil spills, and contaminated sediments. Prerequisite: One year of biology and one year of chemistry and CHM 2200 and lab or permission of the instructor.
History

Kenneth Lipartito, Professor and Chairperson
Nina Caputo, Assistant Professor
Daniel A. Cohen, Associate Professor
N. David Cook, Professor
Hugh Elton, Assistant Professor
Rebecca Friedman, Assistant Professor
Mitchell Hart, Associate Professor
Sherry Johnson, Associate Professor
Alan Kahn, Associate Professor
Howard Kaminsky, Professor Emeritus
Lara Kriegel, Assistant Professor
Felice Lifshitz, Associate Professor
Akin Ogundiran, Assistant Professor
Joseph F. Patrouch, Associate Professor and Director of Graduate Studies
Brian Peterson, Associate Professor
Joyce S. Peterson, Associate Professor and Associate Dean
Darden Ashby Pyron, Professor
Howard B. Rock, Professor
James Sweet, Assistant Professor
Mark D. Szuchman, Professor and Associate Dean
Clarence Taylor, Professor
Victor M. Uribe, Associate Professor
William O. Walker III, Professor
Kirsten Wood, Assistant Professor

Bachelor of Arts in History

Degree Program Hours: 120

Students interested in teacher certification should contact the College of Education at 348-2721.

Lower Division Preparation

Common Prerequisites

Complete two of the following:

AMH 2000 Origins of American Civilization
AMH 2002 Modern American Civilization
AMH 2010 American History, 1607-1850
AMH 2020 American History, 1850-Present
EUH 2011 Western Civilization: Early European Civilization
EUH 2021 Western Civilization: Medieval to Modern Europe
EUH 2030 Western Civilization: Europe in the Modern Era
LAH 2020 Latin American Civilization
WOH 2001 World Civilization

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (60)

One course, at the 3000 or 4000 level in each of the following areas, (indicated in brackets at the end of each course description in the University Catalog).

Modern Europe or Ancient History [1] 3
The United States [3] 3
Latin America or Africa [4] 3
HIS 4935 Senior Seminar 3
Any five additional History courses (at the 3000 or 4000 level) 15
Electives (at the 3000 or 4000 level) in any Department at FIU, to make up the prescribed number of credits required for graduation. (Ten credits maximum at the 1000 or 2000 level for those entering as juniors or seniors). 30

Minor in History

Five general History courses (at the 3000 or 4000 level) 15 semester hours.

Course Descriptions

Definition of Prefixes

AFH-African History; AMH-American History; EUH-European History; HIS-General; LAH-Latin American History; WOH-World History

AFH 2XXX African Civilizations (3).

A survey of major historical themes and cultures of Africa.

AFH 4100 History of Africa I (3). African history from the origins of humanity to the nineteenth century. Topics include the rise of centralized societies, the Atlantic slave trade, early Christianity and Islam. [4]

AFH 4200 History of Africa II (3). African history from the nineteenth century to the present. Topics include European colonialism, the struggle for independence, and contemporary challenges. [4]

AFH 4405 History of East Africa (3). Surveys the developments in the eastern region of the continent from the origins of humanity in the Rift Valley to the 1994 genocide in Rwanda. [4]

AFH 4450 History of South Africa (3). Examines the development of the South African nation in terms of its African and European heritage from the early Khoisan societies through apartheid and Mandela’s election. [4]

AFH 4XXX History of West Africa (3). This course surveys the developments in the western region of Africa from the origins of agricultural societies about 5000 B.C. to the present. [4]

AFH 5905 Readings in African History (3). An examination of historiographical traditions within African history. Topics will vary; with a change in theme, the course may be repeated. Prerequisite: Graduate standing.

AFH 5935 Topics in African History (3). An examination of specific themes in African history. Topics will vary. With a change in theme, the course may be repeated. Prerequisite: Graduate standing.

AFH 6915 Research in African History (3). Research in primary and secondary sources on African history. Subjects may vary. May be repeated with departmental approval. Prerequisite: Graduate standing.

AMH 2000 Origins of American Civilization (3). Examines the origins of the United States from the first European settlements through the early republic. Topics include society, culture, politics and economics. Written work meets the state composition requirement (6,000 words).

AMH 2002 Modern American Civilization (3). Examines the development of the United States from the early republic to the present. Topics include society, culture, politics and economics. Written work meets the state composition requirement (6,000 words).

AMH 2010 American History, 1607-1850 (3). A survey of American history from the founding of Virginia to the antebellum era. Analysis of colonial America, the American Revolution, the Constitution, and the growth of a new republic. [3]

AMH 2020 American History, 1850 to the Present (3). A survey of American history from before the Civil War to our own day. Analysis of the Civil War, Reconstruction, the Gilded Age, the move toward imperialism, and the problems of the 20th Century. [3]

AMH 2428 History of Miami (3). The history of Miami and Dade County
from the time of the native Americans until today. Students will research papers based on primary sources, as well as archival sources. [3]

AMH 3012 American History, 1600-1763 (3). The American social colonial experience from the earliest settlements at Jamestown and Plymouth to the eve of the American Revolution. Particular emphasis will be on religion, social structure, politics, and slavery. [3]

AMH 3141 American History, 1790-1860 (3). An exploration of early national U.S. history, with particular attention to party politics, religious pluralism, sentimental culture, reform movements, and economic development. [3]

AMH 3270 Contemporary U.S. History (3). An examination of the major trends, forces and personalities that have shaped the recent American past. [3]

AMH 3317 America and the Movies (3). An examination of the social and cultural history of 20th century America through its movies. [3]

AMH 3331 American Intellectual History I (3). This course will trace the origins and development of the main ideas and intellectual themes of Anglo-American history during the colonial and early national period, 1600-1815. It will stress social ideas and popular concepts, and relate them to the formation of dominant American national characteristics. [3]

AMH 3332 American Intellectual History II (3). This course will emphasize the full flowering of individualistic liberalism in 19th Century American thought, and trace the implications of and reaction against this tradition down to the present. [3]

AMH 3444 The Great American West (3). The course will explore the meaning of the West for both the settlers and modern Americans. Using song, film, novels, art, etc., the course will examine the lives and values of the Indians, mountain men, farmers, ranchers, and cowboys. [3]

AMH 3560 History of Women in the United States (3). The changing dimensions of women's lives from the colonial era of U.S. history to the present. The course will examine the changing economic, social, and political position of women as well as the development of feminist movement and organizations. [3]

AMH 4130 The American Revolution (3). An exploration of the nature of the Revolution from the beginning of the conflict in 1763 through the ratification of the Constitution in 1789. Discussion of the political and economic differences between the colonists and England, along with the meaning the war had to the different classes of Americans. [3]

AMH 4140 Age of Jefferson (3). A survey of Jeffersonian America (1790-1828) with emphasis on the origins of American politics, the emerging American economy, the rise of American nationalism, and Jeffersonian mind. [3]

AMH 4160 The Age of Jackson (3). A survey of Jacksonian America (1828-1850) with emphasis on the growth of political parties, the rise of American industry, the emergence of labor, slavery, and early reform movements. [3]

AMH 4170 Civil War and Reconstruction (3). The rise and sources of militant sectionalism in the United States, the war itself, and the restoration of the nation. [3]

AMH 4230 The Roaring Twenties and the Great Depression (3). A political, economic, social, and intellectual history of the 1920s and the great depression of the 1930s. [3]

AMH 4251 The Great Depression (3). This course deals with the experience of the American people in the Great Depression of the 1930s. It examines causes of the depression, government response, and effectiveness of response, as well as looking at the actual daily experience of people during the Depression and the changes it made in U.S. society. [3]


AMH 4373 Entrepreneurs in U.S. (3). Focusing on entrepreneurship, course covers American ideals (capitalism, individualism, upward mobility, the free market, independence) in historical context. Examines why these ideals have changed, colonial era to the present. [3]

AMH 4400 Southern History (3). An examination of the main themes and social forces that have shaped the southern experience and the southern intellectual tradition in a distinctive way within the larger historical reality of colonial Anglo-America and the United States. The period covered is from initial exploration and settlement of Sir Walter Raleigh and John Smith to the present. [3]

AMH 4421 Florida Under Five Flags: Florida History from Precontact to 1877 (3). Overview of Florida from the fifteenth through nineteenth centuries. Examines the changing economic, social, and political position of the peninsula and provides an understanding of how Florida has been shaped by its geography and colonial experience. [3]

AMH 4500 United States Labor History (3). Transformations in the nature of work, the experience of the working class, and the development of the American labor movement, with special attention to issues of race, region, and gender. [3]

AMH 4544 The United States and the Vietnam War (3). Emphasizes the cultural differences between the U.S. and Vietnam, and examines why and how the United States got involved in Vietnam and ended up fighting a major war in Southeast Asia. [3]

AMH 4561 Early American Women's History (3). Women in colonial and eighteenth-century America, including some or all of the following: colonialism, Native Americans, witchcraft, migration, slavery, industrialization, Civil War, lynching. [3]

AMH 4562 Modern American Women's History (3). History of women in the U.S. since the Civil War. Topics covered include reconstruction, work-force participation, suffrage, feminist theory, warfare, motherhood, women's liberation. [3]

AMH 4570 African-American History (3). Black society in the United States and its relation to the political, economic, social, and cultural history of America. [3]

AMH 4571 African American History from the 17th to the late 19th
Centuries (3). Examines the experience of African Americans from the colonial period to the Reconstruction era. Topics include: slave cultures; development of free black communities; civil war. [3]

AMH 4573 African American History from the Late 19th Century to the Present (3). Examines the experience of African Americans from the emergence of Jim Crow to the Black Power Movement. Topics include the Great Migration, Marcus Garvey, the Civil Rights and Black Power Movements. [3]

AMH 4914 South Florida History: Research (3). A history of South Florida from the Tequestas and Calusas to the present. The main focus is student research using primary sources including manuscript censuses, microfilmed newspapers and archives. [3]

AMH 4930 Topics in U.S. History (3). Selected topics or themes in U.S. history. The themes will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). [3]

AMH 4XXX US Military History from the Colonial Era to the Present (3). Examines the military heritage of the United States from the Colonial Wars until the present, focusing on the operational and strategic levels of warfare. [3]

AMH 4XXX Technology and American Society (3). The history and impact of technology and innovation on American society, politics, and culture from the 18th century to the present. [3]

AMH 5905 Readings in American History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in American history. Subjects will vary according to professors. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

AMH 5935 Topics in American History (3). An examination of specific themes or topics in American history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule.) Prerequisite: Graduate standing.

AMH 6915 Research in American History (3). Students conduct research in primary and secondary sources on aspects of important subjects in American History. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

EUH 2011 Western Civilization: Early European Civilization (3). Examines the earliest development of European Civilization; European thought and behavior in pre-classical, classical and post-classical periods. Written work meets state composition requirement (6,000 words).

EUH 2021 Western Civilization: Medieval to Modern Europe (3). Examines key developments of European civilization from medieval to early modern times. Written work meets state composition requirement (6,000 words).

EUH 2030 Western Civilization: Europe in the Modern Era (3). Examines key developments in the origins and nature of contemporary Europe, including social, political and industrial changes from the early modern period to the present. Written work meets the state composition requirement (6,000 words).

EUH 3120 Europe in the Central Middle Ages (3). Europe from the ninth to the twelfth centuries, analyzing the disintegration of the empire of Charlemagne and its replacement by nascent national states and by the supra-national papal monarchy. [1]

EUH 3121 Europe in the Earlier Middle Ages (3). The disintegration of the Roman imperial unity and its replacement by Latin, Greek and Arabic cultural spheres, with particular emphasis on the Latin West. [1]

EUH 3122 Europe in the Later Middle Ages (3). The thirteenth throughout the fifteenth centuries as the prelude to the revolutionary transformations of early modernity e.g., secularization, industrialization, expansionism, scientism and democratization [1].

EUH 3142 Renaissance and Reformation (3). A study of the development of humanism in Italy and Protestantism in Germany, and their impact on Europe in the Fourteenth, Fifteenth, and Sixteenth centuries. [2]

EUH 3181 Medieval Culture (3). Selected topics in the cultural history of Europe from 500 to 1500: epic and knightly romance; Christian theology and spirituality; scholastic philosophy; Romanesque and Gothic arts; the rise of literature in the vernacular; the culture of the layman; and the contribution of women. [1]

EUH 3205 Nineteenth-Century Europe 1815-1914 (3). This course will deal with the political, diplomatic, economic, social, and cultural history of Europe from 1815 until 1914. Special attention will be given to the Industrial Revolution. [2]

EUH 3245 European History, 1914-1945 (3). Europe in the era of the two World Wars, with special emphasis on communism and fascism. [2]

EUH 3282 European History, 1945 to Present (3). Europe since the Second World War examined in its political, diplomatic, social, economic, and cultural aspects. [2]

EUH 3400 Greek History (3). The origins of the Greek polis in Mycenaean times, its domination of civilization in the first millennium B.C., its transformation under Alexander and his successors. The political history, culture, values, and social dynamics of Greek civilization. [1]

EUH 3411 Ancient Rome (3). The formation of the Roman republic, its rise to domination in the Mediterranean, its transformation into the Roman Empire, and its final disintegration. The political history, culture, values, social dynamics, and enduring force of the Roman civilization. [1]

EUH 3570 Russian History (3). An overview of Russian History from the time of tribal Slavs until today. The course will focus especially on the changing conditions of the Russian peasantry and on the unique development of the Russian state. [2]

EUH 3576 The Russian Revolution and the Soviet Union (3). This course deals with Russia since 1917 and focuses particularly on the theory and practice of communism in the Soviet Union. The impact of communism on the lives of the people, whether in politics, economics, or culture, will be examined. [2]
EUH 3611 European Cultural and Intellectual History (3). This course will examine the development of the key ideas in European political and social theory, in conceptions of the natural world and of the individual which have come to dominate European culture in the last four hundred years. [2]

EUH 4025 Saints, Relics and Miracles in Medieval Europe (3). Synthetic view of medieval Europe through the lens of saints veneration. Topics include saints as patrons, miracles and magic pilgrimage, bureaucratic canonization, gender and mysticism. [1]

EUH 4033 Nazism and the Holocaust (3). The history of the Third Reich and the Holocaust. The development of the German state and the emancipation of the Jews; the rise of racial antisemitism; Hitler and the emergence of Nazism as a political force; the 'Final Solution' and European and American responses. [2]

EUH 4123 Medieval Holy War (3). Analysis of the cross-cultural phenomenon of holy warfare or the sanctification and glorification of militarism in the Christian crusader movement and the Islamic jihad. [1]

EUH 4187 Topics in Medieval European History (3). Selected topics or themes in Medieval history. The themes will vary from semester to semester. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). [1]

EUH 4200 Seventeenth Century Europe (3). A thematically-arranged study of social, political and artistic developments, in the 17th century. Concentrates on the 30 years war, absolutism, rural society, scientific revolution, and Baroque art. [2]

EUH 4286 Topics in European History (3). An examination of selected topics or themes in early modern and modern European history. The themes will vary from semester to semester. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). [2]

EUH 4300 Byzantine History (3). A survey of the political, cultural, and social history of the Byzantine Empire from 284 to 1461, including Byzantium's contributions to Christian theology, Roman law, and the culture of the Renaissance and eastern Europe. [1]

EUH 4313 History of Spain (3). A survey of Spanish history from the Reconquista through the Civil War, with particular emphasis on the Golden Age. [2]

EUH 4401 History of Fifth Century Greece (3). An examination of the culture and history of Greece in the age of Herodotus and Thucydides, of Pericles, Aeschylus, Euripides, and Aristophanes. [1]

EUH 4432 Between Empire & Renaissance: Italy in the "Middle Age" (3). The Italian peninsula between the age of Roman imperial dominance and the rebirth of Italian centrality during the "Renaissance." Greek, Germanic, Muslim and Norman intervention and the political role of the Roman Church. [1]

EUH 4440 The Making of Medieval France (3). A survey of French history as a case study in state building from the Celtic period and the incorporation of the region into the Roman empire as Gaul to the reign of Philip Augustus. [1]

EUH 4451 History of Modern France, 1815-1968 (3). Survey of French history form the restoration through the student revolt of May 1968, with attention to questions of change and continuity in the French response to modernity. [2]

EUH 4453 The French Revolution and Napoleon (3). A study of French and European history from 1798 to 1815, with an emphasis on the political development of the Revolution, social groups within France, and the rise of Napoleon. [2]

EUH 4462 History of Modern Germany, 1815-1945 (3). A survey of German history from the unification movement through WWII. Topics discussed include Hitler's relation to the German past, liberalism, modernization. [2]

EUH 4501 England to 1688 (3). A survey of ancient, medieval and early modern English history with attention to continental comparisons and contrasts. [1]

EUH 4520 England in the 18th Century (3). Exploring one of the greatest eras in English history, this course will cover the growth of the British empire, crown and Parliament, industrial revolution, social problems and English culture. [2]

EUH 4542 The Culture and Society of Britain, 1830-Present (3). An exploration of the rise and fall of Britain as an industrial, imperial nation. Topics include the nature of industrialization and class formation, the role of race and gender in British culture and society, war and the loss of empire in the 20th century. [2]

EUH 4600 Key Texts in Western Culture to the Renaissance (3). The history of Western Civilization from its beginning to the Renaissance, studied through particularly significant texts. [1]

EUH 4602 The Enlightenment (3). This course deals with the French Enlightenment of the Eighteenth Century, particularly with Voltaire, Diderot, and Rousseau. Impact of the Scientific and English Revolutions on Enlightenment. [2]

EUH 4606 Key Texts in Western Culture from the Reformation to the 20th Century (3). The history of Western Civilization from the Reformation to the present, studied through particularly significant texts. [2]

EUH 4610 Women and Gender in Europe, 1750-Present (3). Examines how women contributed to the development of modern European history. Also explores how ideas about gender and sexuality shaped, and were influenced by, the nature of politics, economics and culture. [2]

EUH 4613 Social History of Early Modern Europe (3). Examines European history 1500-1800 through discussion of various topics including: lords, peasants, demography, family life, education, witchcraft. [2]

EUH 4660 Modern Europe, 1789-Present (3). European history from the French Revolution until today, with special attention to liberalism, nationalism, socialism, communism, and fascism. The course will touch on the main points of the national histories of the various European states, from Britain to Russia. [2]

EUH 4953 Czech History and Culture – Study Abroad (3). Covers the major historical forces and movements which have shaped this area of the world, especially in the last
150 years. The course is taught by FIU and Czech faculty. Prerequisite: Permission of the instructor. [2]

EIH 4XXX The Age of Alexander
The Great, 400-280 BC (3). Covers the life and times of Alexander the Great, 356-323 BC. Includes an analysis of the generations immediately before and after Alexander, to place him in context. Extensive use is made of limited primary sources for Alexander’s era. [1]

EIH 5905 Readings in European History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in European history. Subjects will vary according to professors. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

EIH 5935 Topics in European History (3). An examination of specific themes or topics in European history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

EIH 5915 Research in European History (3). Students conduct research in primary and secondary sources on aspects of important subjects in European history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

HIS 3308 War and Society (3). An examination of the ways societies have organized themselves for external and internal wars. The course will also explore the changing conduct of war, the image of the warrior, and the ways in which military institutions have crystallized class structures.

HIS 4400 The Formation of Urban Society (3). A comparative study of the cultural, social, political and economic development of cities. Topics include: the ancient city, industrialization, immigration, poverty and urban planning.

HIS 4454 The History of Racial Theory in Europe and the United States (3). The literature produced by natural and social scientists on the question of race, the shifting notions of racial identity and difference, superiority and inferiority, and the political and social consequences of these ideas. [2,3]

HIS 4908 Independent Study (VAR). Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor.

HIS 4920 Special Topics (3). An examination of specific themes or topics in history. The theme will vary from semester to semester. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule).

HIS 4935 Senior Seminar (3). A seminar to be taken by all history majors, to provide experience in research, writing, and critical analysis.

HIS 5289 Comparative History (3). A study of specific topics in history that cut across regional, national, and chronological lines. The topics will change from semester to semester, and with a change in content, the course may be repeated. (The topic of the course will be announced in the yearly schedule). Prerequisite: Graduate standing.

HIS 5908 Independent Study (VAR). Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor. Prerequisite: Graduate standing.

HIS 5910 Advanced Research Seminar (3). Small group sessions will analyze particular subject areas in history, with the consent of the instructor. Prerequisite: Graduate standing.

HIS 5930 Special Topics (3). An examination of specific themes or topics in history. The theme will vary from semester to semester, and with a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

HIS 5940 Supervised Teaching (1-3). The students will work under the close supervision of a regular member of the faculty in a mentorial fashion. The supervision will cover various aspects of course design and delivery in history. Prerequisite: Graduate standing.

HIS 5XXX Museum History (3). Examines key texts in the history of museums in modern Europe and the United States. Among issues it addresses are nationalism, imperialism, memory, and identity politics. Prerequisites: Graduate Standing.

HIS 5XXX Public History (3). The theory, methods and practice of history in non-academic settings, including museums, national parks, governmental agencies, corporations, and community organizations. Prerequisite: Graduate Standing.

LAH 2020 Latin American Civilization (3). An analysis of the underlying themes that have shaped the history of the Ibero-American areas from the time of initial contact to the present. Emphasis is given to cultural exchange and transformation. Written work meets state composition requirement (6,000 words).

LAH 3132 The Formation of Latin America (3). An examination of Latin America in the colonial period, focusing on conquest, Indian relations, the landed estate, urban functions, labor, and socioeconomic organization from the 15th through the 18th Centuries. [4]

LAH 3200 Latin America: The National Period (3). Trends and major problems of Latin American nations from independence to the present. [4]

LAH 3450 Central America (3). An overview of Central American history from colonial times to the present, with emphasis on the period after the mid-Eighteenth Century. All five modern nations are dealt with in some detail, while the thematic focus is on social and economic history. [4]

LAH 3718 History of U.S.-Latin American Relations (3). Surveys the history of the social, economic and political relations between the U.S. and the countries of Central America, South America, and the Caribbean basin during the last two centuries. [4]

LAH 3740 Comparative History of Latin American Revolutions and Revolutions (3). Identifies the historical forces driving revolutionary change in Latin America. Causes of revolutions, directions of the revolutionary movements, and their political agendas. [4]

LAH 4433 Modern Mexico (3). An examination of the central themes of nation-building in Mexico from 1810 to the present: race, land, political authority, regionalism, dictatorship, and the Mexican Revolution. [4]
LAH 4471 Colonial Caribbean in Comparative Perspective (3). An overview of the Caribbean region from the fifteenth through the nineteenth centuries. Examines the changing economic, social, and political position of the area and provides an understanding of how the colonies have been shaped by their experiences. [4]

LAH 4482 Cuba: 18th-20th Centuries (3). The socio-economic and political setting in Cuba since the mid-Eighteenth Century. [4]

LAH 4511 Argentina: 18th-20th Centuries (3). A survey of the social and political formation of the Argentine nation, starting with the colonial legacy and ending with the contemporary political situation. [4]

LAH 4600 History of Brazil (3). Origins of Portuguese rule and African slavery; crisis of colonialism and transition to independence; coffee, abolition, and the Brazilian Empire; Republican Brazil and the Revolution of 1930; postwar developments. [4]

LAH 4720 Family and Land in Latin American History (3). Evolution of land tenure in Latin American societies and its connections with the strategies and interests of elite families. [4]

LAH 4721 History of Women in Latin America (3). Examines women’s roles in indigenous societies, in the colonial period, during independence, and in the 19th century. Also explores women and slavery, populism and popular culture, and the rise of the feminist movement. [4]

LAH 4734 Latin American History Through Film (3). Introduces students to central events in the history of colonial and modern Latin America through the use of films. Looks at central historical figures and focuses on critical issues of the period.

LAH 4750 Law and Society in Latin American History (3). Social history of law and legal struggles by colonial Indians, black slaves, peasants, women and contemporary “colonos” (settlers). Its emphasis is on the prevalence of legal confrontations throughout Latin American history. [4]

LAH 4932 Topics in Latin American History (3). Selected topics or themes in Latin American history. The themes will vary from semester to semester. With a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). [4]

LAH 5905 Readings in Latin American History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in Latin American history. Subjects will vary according to professors. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

LAH 5935 Topics in Latin American History (3). An examination of specific themes or topics in Latin American history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

LAH 6915 Research in Latin American History (3). Students conduct research in primary and secondary sources on aspects of important subjects in Latin American history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

WOH 2001 World Civilization (3). Comparative histories of major world civilizations, including China, India, the Moslem Middle East, Africa, Latin America, and the West. Emphasis on cultural characteristics and interactions. Written work meets state composition requirement (6,000 words).

WOH 3281 Jewish History to 1750 (3). Jewish history from the First Exile in 586 BCE to 1750. The development of Jewish institutions in exile and as a nation, the development of the Talmud and the medieval experience.

WOH 3282 Modern Jewish History (3). A survey of the major currents in modern Jewish History. The reaction to the Enlightenment, the American experience, the growth of the Eastern European shtetl, the Holocaust and the birth of the State of Israel.

WOH 4XXX East Asian Civilization and Culture (3). The historical developments of Chinese and Japanese civilizations and cultures from the earliest beginnings and classical period through the middle ages and eighteenth century as well as the modern era. [4]

WOH 4XXX The African Diaspora and the Atlantic Slave Trade (3).
Humanities

Kenneth F. Rogerson, Professor, Philosophy, Director of Humanities
Marian Demos, Associate Professor, Modern Languages (Classics)
Daniel R. Guernsey, Assistant Professor, Visual Arts
Rebecca Friedman, Assistant Professor, History
Ramon Mendoza, Professor, Modern Languages
Joyce Peterson, Associate Professor, History, and Associate Dean of the College
Richard P. Sugg, Professor, English
Barbara Watts, Associate Professor, Visual Arts

Bachelor of Arts in Humanities

Degree Program Hours: 120

The Humanities program offers a structured interdisciplinary curriculum designed to confront the student with values and issues concerning human beings and society, extending beyond the scope and methodology of natural and social sciences.

The program focuses primarily upon the human condition, human values, changing views of the world, and society's major concerns. These values, world views, and concerns have been the preferred object of thought and creativity of philosophers, poets, playwrights, fiction writers, artists, mystics and religious thinkers. Their views have become the reservoir of humankind's most outstanding intellectual achievements, and they have also been powerfully expressed in the works of painters, sculptors, and film directors, as well as in other productions of mass media and popular culture, which must now engage the serious student of our culture and its future. The program also pays particular attention to non-Western and American ethnic-minority cultures, in order to expose the student to the different values, world views, and outstanding cultural achievements of these cultures.

For those students particularly interested in Classical Greek and Roman culture, the program offers a well-structured Classical track and a sequence of Greek and Latin courses.

The Humanities program is not only theoretical. It seeks to develop in the student those skills and attitudes which are specifically human, such as skills of verbal and written communication, analytical skills, open-minded and critical attitudes towards the problems of our changing society, artistic sensitivity and expression, and all forms of imaginative creativity. Above all, the program hopes to challenge the student to raise the cultural level of our society by bringing his or her humanistic approach to bear upon institutions, cultural programs, mass media, and the business community.

The Humanities program is not only a richly rewarding program of undergraduate study, but it also prepares students for later success in post-graduate programs in the liberal arts, law school, business, and public affairs.

A Humanities double major is a fine complement to a highly specialized vocational or professional major. In addition, a Humanities minor offers an attractive option both to students in arts and sciences and to those in the other schools of the University.

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Common Prerequisites

No specific courses required; all students are encouraged to complete the Associate in Arts degree.

Upper Division Program (30)

A. Core: The following 4 courses are required from all HUM majors (12 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HUM 4431</td>
<td>The Greek World</td>
</tr>
<tr>
<td>HUM 3232</td>
<td>Renaissance and Baroque</td>
</tr>
<tr>
<td>HUM 4920</td>
<td>Humanities Seminar</td>
</tr>
</tbody>
</table>

and one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 3246</td>
<td>The Enlightenment and the Modern World</td>
</tr>
<tr>
<td>HUM 3254</td>
<td>Contemporary World</td>
</tr>
<tr>
<td>HUM 3252</td>
<td>20th Century Culture and Civilization</td>
</tr>
</tbody>
</table>

Note: For students who take more than four core courses, the surplus can be counted under B or C below.

B. Three additional Humanities courses (9 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 3214</td>
<td>Ancient Classical Culture and Civilization</td>
</tr>
<tr>
<td>HUM 3304</td>
<td>Values in Conflict</td>
</tr>
<tr>
<td>HUM 3225</td>
<td>Women, Culture and History</td>
</tr>
<tr>
<td>HUM 3306</td>
<td>History of ideas</td>
</tr>
</tbody>
</table>

Classes Track

a. Humanities Core Curriculum 12
b. Three additional courses dealing with Classical (Greek or Roman) culture and civilization. These courses may be either HUM courses or courses from contributing Humanities disciplines. 9
c. Three interdisciplinary Humanities (HUM) courses. 9
d. Language requirement: The language requirement is the same as for other FIU students; however, students in the Classics Track are strongly encouraged to satisfy the requirement with a Classical language.
e. General Electives (30 semester hours). These courses may be outside of the Humanities and its contributing disciplines. Courses must be approved by the Program Director.

Minor in the Humanities (15)

1. One of the following:

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HUM 3214</td>
<td>Ancient Classical Culture and Civilization</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 3432</td>
<td>The Roman World</td>
</tr>
<tr>
<td>HUM 3435</td>
<td>The Medieval World</td>
</tr>
<tr>
<td>HUM 2512</td>
<td>Art and Society</td>
</tr>
<tr>
<td>HUM 3514</td>
<td>Art in Context</td>
</tr>
<tr>
<td>HUM 3545</td>
<td>Art and Literature</td>
</tr>
<tr>
<td>HUM 3562</td>
<td>Politics of the Arts</td>
</tr>
<tr>
<td>HUM 3591</td>
<td>Art &amp; Technology</td>
</tr>
<tr>
<td>HUM 3930</td>
<td>Female/Male: Women's Studies Seminar</td>
</tr>
<tr>
<td>HUM 3939</td>
<td>Special Topics</td>
</tr>
<tr>
<td>HUM 4391</td>
<td>Human Concerns</td>
</tr>
<tr>
<td>HUM 4406</td>
<td>Film Humanities</td>
</tr>
<tr>
<td>HUM 4491</td>
<td>Cultural Heritages and Changes</td>
</tr>
<tr>
<td>HUM 4543</td>
<td>Literature and Philosophy</td>
</tr>
<tr>
<td>HUM 4544</td>
<td>Literature and the Humanities</td>
</tr>
<tr>
<td>HUM 4561</td>
<td>Ethics and the Humanities</td>
</tr>
<tr>
<td>HUM 4555</td>
<td>Symbols and Myths</td>
</tr>
<tr>
<td>HUM 4906</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

1With a change in theme and the instructor's permission, these courses may be repeated for credit.
HUM 4431 The Greek World
or
HUM 3432 The Roman World
and
2. Four additional HUM courses
   (including classical languages) 12

Course Descriptions

Definition of Prefixes
HUM-Humanities
GRE 1120 Classical Greek I (5).
Emphasis of grammar, and on basic
reading and writing skills.
GRE 1121 Classical Greek II (5).
Emphasis on grammar, and on basic
reading and writing skills. Prerequisite:
GRE 1120.
GRE 2200 Intermediate Classical
Greek (5). Emphasis on grammar, and
on acquiring intermediate reading and
writing skills: Prerequisite: GRE 1121.
GRW 3210 Greek Prose Writers (3).
Translation into English and
grammatical analysis of selected texts
of Classical prose writers, such as
Plato, Aristotle, Xenophon, Thucydides
and Plutarch. Prerequisite: Reading
knowledge of Classical Greek or GRE 2200.
GRW 3390 Readings in Greek
Literature (3). Translation into
English and grammatical analysis of
selected texts of ancient Greek authors,
prose and verse, such as Plato, Plutarch
and Homer. The topics will change
from semester and with a change in
content, the course may be repeated.
Prerequisites: GRE 1121 or reading
knowledge of Classical Greek.

HUM 2512 Art and Society (3).
A study of the relationship between art
and culture in different periods,
including patronage, the role of the
artist, and the relationship between art
and economic, political, religious, and
ideological forces.

HUM 2701 Study Abroad in the
Humanities (1-9). Integrated study of
painting, architecture, music, drama,
dance, and philosophy. Attitudes and
beliefs of societies as they are reflected
in the arts.

HUM 3214 Ancient Classical Culture
and Civilization (3). Explores the
culture of the ancient Greek and Latin
worlds from an interdisciplinary
perspective and studies the varied
conceptions of the individual, society,
and nature.

HUM 3225 Women, Culture and
History (3). Examines women's lives
within various world cultures and
historical periods. Examines the
cultural meaning attributed to women,
women's lived experiences and
historical contributions.

HUM 3232 Renaissance and Baroque
Cultures (3). An in-depth examination
of the cultural monuments of the
Renaissance, Reformation, Counter-
Reformation, and Baroque periods and
of the forces that helped shape them.

HUM 3246 The Enlightenment and
the Modern World (3). Explores the
culture and the Enlightenment and the
modern world from an interdisciplinary
perspective and studies the varying
conceptions of the individual society
and nature.

HUM 3252 20th Century Culture
and Civilization (3). The 20th century
through the Vietnam war, as
represented by the period's creative and
intellectual works in literature, art,
history and philosophy - discussed
from an interdisciplinary perspective.

HUM 3254 The Contemporary
World (3). Significant creative and
intellectual works, ideas and
movements of the last twenty years
surveyed and discussed from an
interdisciplinary perspective.

HUM 3304 Values in Conflict (3).
Philosophical, ethical, and religious
foundations of Western civilization and
significant challenges its value system
has received from critical and
revolutionary thought.

HUM 3306 History of Ideas (3). The
historical development of fundamental
concepts through an interdisciplinary
cultural approach. Nature, freedom,
beauty, virtue, alienation, and
relativism are traced in literature, art,
and philosophy including the social
context of developing ideas.

HUM 3432 The Roman World (3).
An in-depth examination of selected
cultural monuments and events of the
Roman Republic and Empire and of
the forces that helped shape them.

HUM 3435 The Medieval World (3).
An in-depth examination of cultural
monuments of the European Middle
Ages and of the forces that helped
shape them.

HUM 3514 Art in Context (3).
Examines topics concerning art in
the context of the history and culture of a
particular society (with change in
content and consent of the instructor,
this course may be repeated for credit).
Prerequisite: Junior standing.

HUM 3545 Art and Literature (3). A
study of a period in the history of visual
art as it relates to literature. Topics
may include art and mythology,
sacred and profane love in art and
literature, painting and poetry, and the
novel and art.

HUM 3562 Politics and the Arts (3).
Explores arts and patronage in relation
to the politics and ideologies of a given
place and time. Topics vary. May be
repeated with a change in content.

HUM 3591 Art and Technology (3).
Explores the relationship between
innovations in technology and artistic
expression. Course theme is media
based, and varies from semester to
semester. May be repeated with
department approval.

HUM 3930 Female/Male: Women's
Studies Seminar (3). This course
interprets and contrasts the status of
women and men in context with
women's inequality. Diverse topics
include the workplace, family,
education, image, violence and
ethnicity.

HUM 3939 Special Topics (3). An
examination of specific topics in the
humanities. The topics may vary from
semester to semester. May be repeated
with a change in content.

HUM 3949 Cooperative Education
in Humanities (3). A student majoring
in Humanities may spend one or two
semesters fully employed in industry in
a capacity relating to the major.

HUM 4392 Human Concerns (3).
Examines concerns important to the
human condition, including varying
conceptions of human nature, the
relation of the individual to society, the
quest for identity, the search for
meaning through literature, art and
social institutions. (With consent of
the instructor, this course may be repeated
for credit).

HUM 4406 Film Humanities (3).
Studies the significance of film in
Western culture: the language,
semiotics and technique of films with
the aid of appropriate cinematographi-
cal material.

HUM 4431 The Greek World (3). An
in-depth examination of selected
cultural monuments and events of the
Greek World in the Classical and Hellenistic periods and of the forces that helped shape them.

HUM 4491 Cultural Heritages and Cultural Changes (3). Focuses upon various cultures and their development, including such topics as: cultural evolution and revolution, ethnicity and pluralism, and subcultures and countercultures. (With consent of the instructor, this course may be repeated for credit.)

HUM 4543 Literature and Philosophy (3). The interpretation of literature and philosophy from an interdisciplinary perspective. In addition to philosophical novels, poetry, and drama, the course may examine philosophical scrutiny of literature.

HUM 4544 Literature and the Humanities (3). Literature from an interdisciplinary perspective. Literary texts are related to the cultural context of their production and the ideas surrounding them.

HUM 4555 Symbols and Myths (3). An in-depth examination of mythology and symbolic language within the cultural and psychodynamic forces that inform them. This course gives special emphasis to Classical myths.

HUM 4561 Ethics and the Humanities (3). Human values studied from an interdisciplinary perspective. Selected ethical issues are examined using philosophical, historical, or literary texts. The relationship between ethical values and cultural achievements is explored.

HUM 4920 Humanities Seminar (3). Addresses a specific topic in-depth from a variety of perspectives. Topics will be announced in advance. (With consent of the instructor, this course may be repeated for credit.)

HUM 5935 Graduate Seminar in Humanities (3). A specialized thematic topics offered at the Graduate level. Topics will vary and will be announced in advance. With consent of the instructor, this course may be repeated for credit.

LAT 2200 Intermediate Latin (5). Emphasis on grammar and on acquiring basic reading and writing skills. Prerequisite: LAT 1121.

LAT 3210 Latin Prose Writers (3). Translation into English and grammatical analysis of selected texts of classical prose writers such as Cicero, Caesar and Livy. Prerequisite: Reading knowledge of Latin or LAT 2200.

LAT 3211 Readings in Latin Literature (3). Translation into English and grammatical analysis of selected texts of Latin authors, prose and verse, such as Cicero, Livy, Virgil and Horace. The topics will change from semester and with a change of content, the course may be repeated. Prerequisites: LAT 1121 or reading knowledge of Latin.
International Relations

John F. Clark, Associate Professor and Chairperson
Ken I. Boodhoo, Associate Professor
Thomas A. Breslin, Associate Professor
Ralph S. Clem, Professor
Peter R. Craumer, Associate Professor
Francois Debrux, Assistant Professor
Damian J. Fernandez, Associate Professor
Harry D. Gould, Visiting Lecturer
Gail Hollander, Assistant Professor
Antonio Jorge, Professor
Paul Kowert, Associate Professor
Charles G. MacDonald, Professor
Felix Martin, Assistant Professor
Mohiadin Meshahi, Associate Professor
Rod Neumann, Associate Professor
Nicholas G. Onuf, Professor
Patricia L. Price, Assistant Professor
Elisabeth Prugl, Associate Professor
William O. Walker III, Professor
Gregory B. Wolfe, Professor

The Department of International Relations offers a B.A. degree in International Relations and a B.A. degree in Geography.

Bachelor of Arts in International Relations

Degree Program Hours: 120

Lower Division Preparation

Students may begin taking courses in the Department at any time and may declare their intention to major in International Relations after completing 24 semester hours of general education requirements. To qualify for full admission to the program, FIU students must have met all lower division requirements including CLAST, complete 60 semester hours, and must otherwise be otherwise acceptable into the program.

Common Prerequisites

None

Required for the degree:

INR 2001 Introduction to International Relations

Upper Division Program

International Relations majors must complete a minimum 30 semester hours of course work in the department with a grade of ‘C’ or better.

Core Requirement: (9)

GEA 2000 World Regional Geography 3
INR 3013 Development of International Relations Thought 3
INR 4603 Theories of International Relations 3

Group I Courses for the Major: (9)

In addition to the Core Requirement, INR majors must take at least one course (3 sem. hrs.) from each of the following divisions in Group I:

(1) International Law/International Organizations (IL)
(2) Foreign Policy/Security Studies (FP)
(3) International Political Economy/Economic Geography (IPE)

Group II Courses for the Major: (12)

INR majors must also take at least four courses (12 sem. hrs.) in Group II, including at least one from each of the following divisions:

(1) Area Studies (AS)
(2) Geography (G)
(3) Issues and Problems in International Relations (IP)

IP courses fulfill SACS oral and computer competency requirements.

Electives

Students are encouraged to take courses or pursue a minor in related fields such as economics, modern languages, geography, history, political science, sociology/anthropology, or business. We particularly recommend that students take introductory courses in economics and gain fluency in a foreign language. Students may also consider appropriate academic certificates such as the Latin American and Caribbean Studies, Asian Studies, African-New World Studies, and European Studies Certificates. Students may want to consider a double major.

Minor in International Relations

A student majoring in another academic discipline earns a Minor in International Relations by successfully completing approved course work of 15 semester hours in the Department of International Relations with a grade of ‘C’ or better. This program must include:

INR 2001 Introduction to International Relations 3
GEA 2000 World Regional Geography 3
At least one course from Group I 3
At least one course from Group II 3

Any other course offered by the Department of International Relations.

Bachelor of Arts in Geography

Degree Program Hours: 120

Upper Division Program

In addition to two entry-level common prerequisites, students must complete a total of 30 credit-hours, 27 of them at the upper division level. These include three core courses, three courses in regional studies, and four in a topical specialization track. An outline of the specific course requirements for the geography major follows:

Common Prerequisites: (6)

Two 2000 level GEO courses. It is strongly recommended that students fulfill part of this requirement with GEO 2200, Physical Geography.

Core Requirements: (9)

GEA 2000 World Regional Geography
GEQ 3001 Geography of Global Change
GEO 3176 Applications of GIS

Regional Studies: (9)

Choose at least two upper division courses with a GEO prefix. Other credits may be earned by taking INR courses with an “AS” designation.

Topical Specialization: (12)

Choose one of the following tracks. A minimum of 12 credit-hours must be taken to complete the chosen track, 9 of which must have a GEO or GEA prefix.

Track 1: Development and Cultural Change

Any GEO course with a (T1) designation.
Any INR course with an (IP or IPE) designation.

Track 2: The Geography of International Relations

Any three GEO courses with a (T2) designation.

Plus:

INR 3013 Development of International Relations Thought

Track 3: Environmental Applications

Any three GEO courses with a (T3) Designation.

Plus:

Any upper division EVR course.
Or: Choose one of the following:
GEO 3510 Earth Resources
GLY 3034 Natural Disasters
GLY 3039 Environmental Geology

Minor in Geography

A student majoring in another academic discipline earns a Minor in Geography by successfully completing approved course work of 15 semester hours with a grade of 'C' or better as described below:
GEO 2000 Introduction to Geography 3
GEO 2000 World Regional Geography 3

In addition to the above required courses, students must take a minimum of three other Geography courses, at least one with a GEO prefix, and at least one with a GEO prefix.

Course Descriptions

Definition of Prefixes
GEO-Geography-Regional (Area); GEO-Geography-Systemic; INR-International Relations; PUP-Public Policy.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

GEO 2000 World Regional Geography (3). A systematic survey of the major regions and countries of the world, with regard to their physical, cultural, and political characteristics. Emphasis upon climate, natural resources, economic development, and population patterns. (F,S,SS)

GEO 3320 Population and Geography of the Caribbean (G) (3). Physical, cultural and political geography of the Caribbean; emphasis on population patterns, growth and ethnicity. (S)

GEO 3400 Population and Geography of Latin America (G) (3). Introduction to the physical, cultural, and political geography of Latin America. Emphasis on population patterns and problems of population growth, systems of land use and tenure, economic development, natural resources, and agriculture. (F,S)

GEO 3500 Population and Geography of Europe (G) (3). Introduction to the physical, cultural, and political geography of Europe emphasizing the evolution of the states and the geographical factors facilitating the integration movement. (S)

GEO 3554 Geography of Russia and Central Eurasia (G) (3). A geographical analysis of the countries of the former Soviet Union. Emphasis on resources, population, urbanization, and economic development. (S)

GEO 3600 Population and Geography of Africa (G)(3). Examines the structure of pre-conquest society and covers colonialism's effects on contemporary food production and ecological management. An overview of development issues in Africa. (F)

GEO 3635 Population and Geography of the Middle East (G) (3). Introduction to the physical, cultural, and political geography of the Middle East. Emphasis on population patterns, natural resources, and economic development. (F)

GEO 3705 Geography of Central Asia and the Caucasus (G) (3). Geography of the countries of the former Soviet Union in the Caucasus and the Central Asian regions. Emphasis on natural resources, environmental problems, ethnicity and population change, urbanization, and economic development. (F,S,SS)

GEO 4905 Independent Study (1-6). Directed independent research in regional geography. Requires prior approval by instructor. (F,S,SS)

GEO 4930 Topics in Geography (3). Varies according to the instructor and semester. May be repeated with departmental permission.

GEO 4XXX Geography of the Borderlands (3). Examines the role of borders in human society. Comparative analysis of specific border zones. In-depth exploration of one borderland: society, culture, economics, and political processes.

GEO 2000 Introduction to Geography (G) (3). Leading concepts of human and environmental geography. Physical, cultural, economic and political factors in the spatial patterns of natural and human systems. (F,S)

GEO 2XXX Mapping in Geography (3). Introduction to the history of cartography and map production. Descriptions of map errors, maps as science and as art. Also more technical map creation with aerial photography and satellite images.

GEO 3001 Geography of Global Change (3). Explores the geography of change in contemporary world economy, politics, culture, and environment. Mapping and spatial analysis aid in understanding global change and effects on specific places.

GEO 3176 Applications of Geographic Information Systems (3). Introduction to geographic spatial analysis using a variety of data.

GEO 3421 Cultural Geography (G) (T1) (3). The study of spatial variations among cultural groups and the special functioning of society. Focuses on describing and analyzing geographic differences in language, religion, economy, and government. (S)

GEO 3471 Political Geography (G) (T2) (3). Emphasis is given to the organization of space, particularly as it pertains to the nation-state. Factors instrumental to determining the viability of states are included stressing unifying-repelling forces. (S)

GEO 3502 Economic Geography (G, IPE) (T1,T2) (3). Explores spatial facets of the economy at the international level, including trade, development, manufacturing, multinational corporations and technology. (S)

GEO 3602 Urban Geography (G) (T1) (3). The study of spatial organization within and among urban settlements. Analysis of both the empirical and theoretical aspects of urbanism are covered, with an emphasis on current urban problems. (S)

GEO 4354 Geography of the Global Food System (T2,T3) (3). Analyzes the spatial organization of the global food system and its importance to world economic development. Explores issues of food security, trade, and environment.

GEO 4476 Political Ecology (T1,T3) (3). Principles of human geography and political economy structure analyses and explanation of ecological problems. Emphasizes spatial aspects of society and environment interactions.

GEO 4905 Independent Study (1-6). Directed independent research in systematic geography. Requires prior approval by instructor. (F,S,SS)

GEO 5415 Topics in Social Geography (G, IP) (3). Topics discussed include geographic aspects of population and ethnicity, with emphasis on sources and analysis of
data and pertinent concepts. Prerequisite: GEA 2000 or permission of the instructor. (S)

GEO 5557 Globalization (3). Examines the transformation of the world economy and of global finance, the changing significance of sovereignty and territoriality, the effects of space-time compression on everyday life, and associated shifts in culture and identity.

INR 2001 Introduction to International Relations (3). Introduction to the interactions among international actors: states, international organizations, and transnational groups. Concepts such as power and national interest will be introduced. (F,S,SS)

INR 3013 Development of International Relations Thought (3). The nature and characteristics of international relations from antiquity to the end of the First World War. Examination of the religio-philosophical, socio-economic and political ideas and systems associated with them. Study of select historical occurrences and patterns of social change and their interaction with the dynamics of international relations. Prerequisite: INR 2001.

INR 3043 Population and Society (G, IP) (3). Introduction to basic demographic concepts: fertility, mortality, migration, urbanization. Discussion of economic development, modernization and population change. Examination of sources of data and background information including censuses and vital statistics, and their utilization. (F)

INR 3045 The Global Challenge of Refugees and Migrants (IP) (3). Examines political and economic challenges stemming from the international movement of refugees and economic migrants. Emphasizes the role of state power, organizations and legal in structuring responses.

INR 3081 Contemporary International Problems (3). Examines selected world and regional issues and problems. Topics vary according to the instructor. (F,S,SS)

INR 3106 International Relations of the United States (FP) (3). Introduces major issues of U.S. foreign policy. Topics are examined from multiple perspectives, including those of individual leaders, domestic interest groups, and the national interest. (F,S)

INR 3214 International Relations of Europe (AS) (3). An examination of the international, social, economic, and political life of contemporary Europe. Emphasis given to international organizations and the trend toward economic and political integration. (F,S)

INR 3223 Japan and the United States (AS) (3). Examines the international relationship between two of the most powerful and economically significant states of this and the next century and the international problems they must face together.

INR 3224 International Relations of East Asia (AS,FP) (3). Examines strategic and economic aspects of international relations among China, Japan, North Korea, and other nations of East Asia.

INR 3226 International Relations of Central Asia and the Caucasus (AS) (3). Analysis of international relations of Central Asia and the Caucasus, domestic and external sources of region’s foreign policy and its geopolitical, geo economic and geocultural dynamics.

INR 3232 International Relations of China (AS) (3). An examination of the development of China’s international relations in the 20th century. Special attention to the development of institutional mechanisms for diplomacy and to problems of integrating domestic and foreign policies. (S)

INR 3243 International Relations of Latin America (AS) (3). An examination of international, social, economic, and political life of Latin America. Emphasis given to the role of international organizations; regionalism; and the trend toward economic integration. (F,S,SS)

INR 3246 International Relations of the Caribbean (AS) (3). An examination of the international social, economic, and political life of the Caribbean. Includes English, Spanish, and French speaking regions. (F,S)

INR 3252 International Relations of North Africa (AS) (3). An examination of the social, political and economic structure of North Africa and the manner in which its historical development has conditioned international relations within and external to the region. (F)

INR 3253 International Relations of Sub-Saharan Africa (AS) (3). An analysis of the international relations of sub-Saharan African nations with one another and with other, non-African nations. Examines the effects of such international relationships on development, politics, and social change in sub-Saharan Africa.

INR 3262 International Relations of Russia and the Former USSR (AS) (3). Analysis of the international relations of countries of the former USSR, covering the Soviet and post-Soviet eras. Emphasis on Russia, Muslim Central Asia, and their impact on the international system. (F)

INR 3274 International Relations of the Middle East (AS) (3). An examination of the international social, economic, and political life of the Middle East. The role of oil in the region will receive special attention. (F,S)

INR 3303 Foreign Policymaking (FP) (3). Introduces and explores models of foreign policymaking, applied to international strategic, economic, and social problems.

INR 3403 International Law (IL) (3). Introduction to the legal concepts, framework, and institutions which play a role in international relations theory and practice. (F,S,SS)

INR 3502 International Organizations (IL) (3). The study of international political, economic, and social organizations and their impact upon the relations between nations. Emphasis on the constitution, voting, membership, security and operation of such organizations, and the settling of international disputes through these bodies. (F,S,SS)

INR 3703 International Political Economy (IPE) (3). Explores the important concepts, theories, and contending approaches used in the study of international political economy.

INR 3705 Geography of Central Asia and the Caucasus (AS,G) (3). Geography of the countries of the former Soviet Union in the Caucasus and the Central Asian regions. Emphasis on natural resources, environmental problems, ethnicity and population change, urbanization, and economic development.
INR 3949 Cooperative Education in Social Sciences (3). A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend several semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department. (F,S,SS)

INR 3XXX Honors Seminar 1: Advanced Writings in International Relations (3). Instruction on the steps in research and writings including formulation of the research question, research design, argumentation and bibliography assembly on a theme in International Relations. Prerequisite: INR 2001.

INR 4024 Ethnicity and Nationality: World Patterns and Problems (IP) (3). A systematic survey of multinational states and their current political and socio-economic situations. The concept of ethnicity and its correlates. Conceptual bases of ethnic integration, assimilation, and stratification. The macro and micro-scales: country, region, city, neighborhood. The consequences of modernization and economic development. (F)

INR 4031 The Media and International Relations (IP) (3). Explores the impact of print and visual media on the practice of International Relations. Examines how the media and their technologies determine the outcome of International Relations.

INR 4032 Asia and Latin America in World Affairs (AS) (3). Examines the linkages between Asia and Latin America, their roles in world affairs, the domestic sources of foreign policies of states in the two regions, as well as the international issues confronting the two areas.

INR 4054 World Resources and World Order (IP) (3). An examination of the impact of the quantity and distribution of the world's resources upon the relations between nations. The availability of mineral resources and food, in particular, will receive attention; and an assessment will be made of the international economic and political implications deriving therefrom. (F,S)

INR 4082 Islam in International Relations (IP) (3). Analysis of the role of Islam in shaping the dynamics of contemporary international relations. Emphasis on ideological, cultural and political role, Islamic movements and states and relations with the West. (S)

INR 4085 Women and Men in International Relations (IP) (3). Surveys the differential roles of women and men in international relations, gender based politics at a global scale, and constructions of proper womanhood and manhood in transnational politics.

INR 4091 Ethical Problems in International Relations (IP) (3). Explores several approaches to the international ethical problems posed by intervention, human rights abuses, nuclear threats, global economic privation and other international phenomena. Prerequisite: INR 2001.

INR 4247 Caribbean Regional Relations (AS) (3). An examination of the forces and institutions which contribute to or inhibit cooperation and integration in the Caribbean. Prerequisites: INR 3246, CPO 3323, ECS 4432. (S)

INR 4283 International Relations, Development, and the Third World (AS, IP) (3). An examination of the impact of the theory and practice of development and the relations between nations, with particular emphasis on the Third World. Attention given to the role of international political and economic organizations in the development process. (F,S)

INR 4335 Strategic Studies and National Security (FP) (3). The role of force in international relations is examined. The use and control of force in theory and practice is analyzed. Special attention is paid to contemporary national security issues. (F,S)

INR 4404 International Protection of Human Rights (IL, IP) (3). Development of the concern of the international community with the rights of individuals and groups and the institutional mechanisms which have been set up for their protection. (F)

INR 4408 Topics in International Law (IL, IP) (3). An intensive examination of selected topics in international law and relations among nations. Topics will vary according to the interests of the instructor and the students. (F)

INR 4603 Theories of International Relations (3). Analysis and conceptualization of the forces and conditions which influence relations among nations. Emphasis is on the provision of an analytical basis for the study of international relations. Prerequisite: INR 2001 or permission of the instructor. (F,S,SS)

INR 4905 Independent Study (VAR). Directed independent research. Requires prior approval by instructor. (F,S,SS)

INR 4931 Topics in International Relations (3). Varies according to the instructor. (F,S,SS)

INR 4943 Internship in International Affairs (IP) (1-6). Work 10-15 hours a week with a consolate, business, bank, private voluntary organization, governmental agency or consulting firm for professional experience in international affairs. Prerequisite: INR 2001.

INR 4949 Cooperative Education in Social Sciences (3). A student majoring in one of the Social Sciences (Economics, International Relations, Political Science, Sociology, or Psychology) may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department. (F,S,SS)

INR 4970 Honors Thesis (3). Under the direction of an appropriate faculty member, students research and write an honors thesis. Prerequisite: INR 3XXX (Writing in International Relations).

INR 5007 Seminar in International Politics (3). An advanced graduate course designed to give students a specialized knowledge of the classics in international politics. The course traces the development of international politics from Thucydides to the present.

INR 5036 Politics of Globalization (3). Intensive examination of state and global institutions that have shaped process of economic globalization. Topics include impact on sovereignty, human rights, labor and agenda-setting of large and small nation-states.

INR 5086 Islam in International Relations (3). Analysis of the role of Islam in shaping the dynamics of contemporary international relations. Emphasis on the ideological, cultural, and political role of Islamic movements and states, and their relations with the West. (F)
INR 5087 Ethnicity and the Politics of Development (3). This course examines the conceptual and substantive dimensions of ethnicity in the context of world politics and political development. The course will highlight ethnicity and ethnic groups as critical factors in North-South politics. (F)

INR 5255 Seminar in African Development (3). Examines political, economic and social development in Sub-Saharan Africa in an international context. Introduces students to sources for research in African international development. Prerequisites: Undergraduate course on Africa or graduate status.

INR 5315 Foreign Policy Analysis (3). Comparative examination of theories of foreign policy making, emphasizing the international, domestic, and organizational contexts in which national policies are formulated and enacted. Prerequisites: Graduate standing or permission of the instructor. (F)

INR 5409 International Law I (3). Role of international law in the relations of states; nature, development, theory, sources of law; international personality; jurisdiction, including territory and nationality; dispute settlement. (F)

INR 5507 International Organizations I (3). Study of international organizations and their role in international relations. Emphasis on their legal status, rule-making capacities and role in dispute settlement and maintenance of peace. (S)

INR 5607 International Relations and Development (3). An analysis and conceptualization of the process of development as it takes place in the international context. Special attention given to the role of international organizations in promoting development and the manner in which differences in developmental levels conditions international relations. (S)

INR 5615 Research Design in International Relations (3). Introduces graduate students to the principles of formulating and defending a compelling research design, gathering and analyzing evidence, and producing scholarship.

INR 5906 Independent Study (VAR). Directed independent research.

INR 5943 Internship in International Relations (1-6). Permits student to gain direct experience with analysis and conduct of international affairs. Work required for internship must be determined in consultation with instructor. Prerequisites: Graduate standing and permission of the instructor.

INR 5945 Graduate Pedagogy (1). The development of teaching skills required by graduate assistants, including classroom skills, designing examinations, etc. Prerequisite: Graduate Assistants.
Liberal Studies
Janet F. Parker, Professor, Psychology, and Director of Liberal Studies
Marcelle M. Welch, Professor, Modern Languages and Associate Director of Liberal Studies

The Liberal Studies Program exposes the student to a wide range of courses offered by the College, while granting the opportunity to pursue an individualized program of studies under the Liberal Studies guidelines. These guidelines include six categories of courses: (1) Foundations of Liberal Studies, two courses to be taken as early as possible; (2) Interdisciplinary Colloquia, two courses involving faculty from several departments of the College, and dealing with interdisciplinary topics; (3) Natural Sciences, two courses to expose the student to the scientific method and its application to problems in biology, chemistry, environmental science, earth sciences, and physics; (4) Humanities, two courses dealing with the analysis of literary, philosophical, religious and historical texts or works of art, music, and theatre; (5) Social Sciences, two courses to expose the student to the basic theories and methods of social scientists in the fields of anthropology, economics, international relations, political science, psychology, and sociology; (6) Artistic Creation, one course in studio art or music, creative writing, or theatre to allow the student to experiment with his or her own creativity, and to experience the work of the artist.

Students are free to choose any combination of courses within these guidelines. Under the advisement of the Director of Liberal Studies, the student will be encouraged to pursue an individualized and focused program.

Bachelor of Arts
Degree Program Hours: 120

Lower Division Preparation
Common Prerequisites
No specific courses required; all students are encouraged to complete the Associate in Arts degree.

Recommended Courses: Arts and Sciences concentration recommended. To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Upper Division Program
Required Courses: (33)
Courses offered by any of the units of the College of Arts and Sciences, chosen in accordance with academic guidelines of the Program of Liberal Studies, to meet requirements in the following areas:
- Natural Sciences 6
- Humanities 6
- Social Sciences 6
- Artistic Creation 3
- Interdisciplinary Colloquia offered by the Liberal Studies Program 6
- Foundations of Liberal Studies 6

All courses must be completed with a grade of "C" or better.

Electives: (27)
The remaining hours will be taken as electives.

Course Descriptions
Definition of Prefixes
IDS-Interdisciplinary Studies, SSI-Social Sciences: Interdisciplinary

IDS 2930 Faculty Scholars Seminar (1).
Provides freshman Faculty Scholars the opportunity to participate in the interdisciplinary study of significant themes. May only be taken twice.

IDS 3930 Foundations of Liberal Studies (3).
This will be a broad synthesis of knowledge and methods in the Arts and Sciences taught from the perspective of different disciplines. Specific topics will be announced in advance.

IDS 3949 Cooperative Education in Liberal Studies (3).
A student majoring in Liberal Studies may spend one semester fully employed in industry in a capacity relating to the major.

IDS 4905 Independent Study (VAR).
Cross-disciplinary topics for individual study and research to be chosen by students in consultation with their faculty advisors.

IDS 4920 Liberal Studies Colloquia (3).
Individual sections will study, from an interdisciplinary perspective, issues selected and presented jointly by College faculty. Specific topics will be announced in advance.

IDS 4930 Foundations of Liberal Studies (3).
This will be a broad synthesis of knowledge and methods in the Arts and Sciences, taught from the perspective of different disciplines. Specific topics will be announced in advance.

IDS 4949 Cooperative Education in Liberal Studies (3).
A student majoring in Liberal Studies may spend one semester fully employed in industry in a capacity relating to the major.

IDS 6931 Great Ideas Seminar: The Age of Science (3).
Great ideas from the natural sciences. Study of the historical development, evidential basis, and broader implications of these ideas. Reflection on the nature and methods of modern science. Prerequisite: Graduate standing.

IDS 6937 Great Ideas Seminar: Special Topics (3).
Intensive interdisciplinary investigation of a single great idea such as natural selection or the infinite. Study of that idea's cross-disciplinary development, its impact, and its uses and misuses. Prerequisite: Graduate standing.

IDS 6938 Great Ideas Seminar: Human Nature (3).
Great religious, philosophical, and scientific ideas about human nature. Discussion of the view that human beings have no nature. Study of such thinkers as Plato, Darwin, Freud, Skinner, and Sartre. Prerequisite: Graduate standing.

IDS 6939 Great Ideas Seminar: Politics and Society (3).
Great ideas in political and social thought from Plato to the present. Topics include political obligation, the nature of the state, social and economic justice, social contract, liberty, and community. Prerequisite: Graduate standing.

IDS 6972 Master's Essay (3).
For students writing their master's essay. Oral presentation required. Prerequisite: All other coursework for the Master of Arts in Liberal Studies Degree.

EUS 4920 Colloquium: European Studies (3).
Interdisciplinary course, co-taught by faculty from the humanities and social sciences provides students a comprehensive picture on a subject relevant to modern Europe. Topics will vary.

SSI 3240 World Prospects and Issues (3).
This course examines, from a
multidisciplinary point of view, specific global issues such as food, population, and arms control. The issues discussed may change from one semester to the next.

SSI 4XXX Cultural Expressions of the Americas (3). This interdisciplinary course focuses on national, cultural, and racial identities, as well as the performance of race and gender, as expressed in cultural productions of the Americas.

SSI 5XXX Latin American and Caribbean Cultural Expressions (3). This interdisciplinary course develops an interdisciplinary approach to the study of national, cultural, and racial identities, as expressed in cultural productions of the Latin America and the Caribbean.

**Labor Studies**

Margaret Wilson, Director, Labor Studies Concentration

Dawn Addy

Guillermo Greiner

Thomas Humphries

Bruce Nissen

The Liberal Studies Program of the College of Arts and Sciences offers a Concentration in Labor Studies as an option within the program. As an academic discipline, Labor Studies has its roots in both the social sciences and the workers’ education movement of the early twentieth century. Labor Studies as a discipline acknowledges insights into the labor field which have emerged from decades of university-union cooperation in labor affairs apart from the traditional framework of industrial relations. According to this concept, Labor Studies is the academic examination of issues which confront people in the pursuit of their need for rewarding employment. The focus of inquiry is on workers as individuals, as members and/or leaders in their unions or associations, and as citizens of their communities.

People in pursuit of rewarding jobs and careers have employed and continue to develop a variety of individual and collective strategies to cope with the dynamics of change in society, including the development of unions and other workers’ associations. Because these unions and associations also conduct autonomous economic, social and political programs which transcend their labor relations nexus with management, Labor Studies reaches beyond industrial relations and addresses an additional set of questions and concerns.

Thus, Labor Studies takes as its focus the individual workers, the unions and associations that workers develop, and the internal and external relations of those unions and associations to other societal institutions in the United States and around the world. The scope of Labor Studies is dictated by the needs and interests of workers and employees, including their individual, group and organizational problems in the workplace; their relationships with their employers; and their interactions with the larger community, economy, and polity.

A student majoring in Liberal Studies may earn the Concentration in Labor Studies by fulfilling the requirements of both programs. The Concentration is a nine-course (27-credit hour) program of study within the Liberal Studies Degree.

**Required Courses for Liberal Studies:** (33)

Thirty-three semester hours of concentration at the 3000 or 4000 level as required for all Liberal Studies students to be selected in consultation with and agreement of advisor. Courses are to meet requirements in the following areas:

- Natural Sciences 6
- Humanities 6
- Social Sciences 6
- Artistic Creation 3
- Interdisciplinary Colloquia 6
- Foundations of Liberal Studies 6

When possible, these courses should be selected from the list of required and elective courses for Labor Studies. All courses must be completed with a grade of ‘C’ or better.

**Required Courses for Labor Studies Concentration:** (12)

LBS 3001 Introduction to Labor Studies

Minimum of three courses (nine hours) to be chosen from the following: (additional courses from this list may be used to fulfill electives). To be chosen in consultation with and agreement of advisor.

- ECO 2023 Principles of Microeconomics
- LBS 4101 Theories of the Labor Movement
- LBS 4210 Women and Work in the United States
- LBS 4501 Labor Law

- LBS 4900 Directed Study in Labor Studies
- SYO 4360 Work & Society

**Electives (15)**

To be chosen from the following in consultation with and agreement of advisor (some of these courses may require prerequisites).

**Economics**

- ECO 2013 Principles of Macroeconomics
- ECO 3303 Development of Economic Thought
- ECO 4321 Radical Political Econ
- ECO 4622 Economic Development of U.S.
- ECO 4701 World Economy
- ECO 4733 Multinational Corporations
- ECP 4203 Intro to Labor Economics
- ECP 4204 Theory of Labor Economics
- ECS 3402 The Political Economy of South America

**History**

- AMH 2020 American History 1850-Present
- AMH 3270 Contemporary U.S. History
- AMH 4251 The Great Depression
- AMH 4500 United States Labor History
- EUH 4660 Modern Europe, 1789 to the Present
- LAH 3200 Latin America: The National Period
- LAH 4511 Argentina: 18th-20th Centuries
- LAH 4600 History of Brazil

**Industrial Engineering**

- EIN 4214 Safety in Engineering
- EIN 4261 Industrial Hygiene

**International Relations**

- INR 3004 Patterns of International Relations
- INR 3043 Population and Society
- INR 4283 International Relations, Development, and the Third World

**Labor Studies**

- LBS 4150 Contemporary Labor Issues
- LBS 4260 Union Leadership and Administration
- LBS 4401 Labor Contract Negotiations
- LBS 4461 Labor Dispute Resolution
- LBS 4654 Comparative and International Labor Studies
LBS 4905  Topics in Labor Studies
LBS 4930  Topics in Labor Studies
LBS 5464  Labor Arbitration

Management
MAN 4401  Collective Bargaining
MAN 4410  Union-Management Relations
MAN 4610  International and Comparative Industrial Relations

Philosophy
PHI 2600  Introduction to Ethics
PHI 3636  Professional Ethics
PHM 3200  Social and Political Philosophy
PHM 3400  Philosophy of Law

Political Science
POS 3424  Legislative Process
POS 4071  Corporate Power and Politics
POS 4122  State Government and Politics
POT 3204  American Political Thought
POT 3302  Political Ideologies
PUP 4004  Public Policy (U.S.)

Psychology
INP 2002  Introductory Industrial/Organizational Psychology

Public Administration
PAD 2002  Intro to Public Administration
PAD 4223  Public Sector Budgeting
PAD 5427  Collective Bargaining in the Public Sector

Sociology/Anthropology
ANT 4007  The Organizer
ISS 3330  Ethical Issues in Social Sciences
SYA 3300  Research Methods
SYA 4010  Sociological Theories
SYO 4360  Work & Society
SYO 4530  Social Inequality
SYP 4421  Man, Society and Technology

Statistics
STA 1013  Statistics for Social Services
STA 2122  Introduction to Statistics I
STA 3123  Introduction to Statistics II

Theatre
SPC 2600  Public Speaking

Course Descriptions

Definition of Prefixes
LBS - Labor Studies

LBS 3001 Introduction to Labor Studies (3). History and development of the labor movement, with emphasis on union development as a response to industrialization and technological change. Includes the structure and functioning of modern unions, the development of modern technology, the industrial working class, and the impact of the rural-urban shift of labor.

LBS 3470 Labor Contract Administration (3). Use of grievance procedure to administer a collective bargaining agreement. Identification, research, presentation, and writing of grievance cases. Technical and legal role of union steward.

LBS 3943 Internship in Labor Studies (3). Practical training and experience in various aspects of labor organization policies, practices, and procedures through placement with a local labor organization. Reports and papers required. Prerequisite: Permission of the instructor.

LBS 3949 Cooperative Education in Labor Studies (1-3). One or two semesters of part or full-time work related to the major. Written reports and supervisor evaluations required. Prerequisite: Permission of Labor Studies Program.

LBS 4101 Theories of the Labor Movement (3). This course deals with theories which have attempted to explain the origins, developments, and functioning of the labor movement.

LBS 4150 Contemporary Labor Issues (3). Studies of contemporary labor issues selected from such areas as collective bargaining, arbitration, mediation, legislation, regulative and administrative law, employment discrimination, and union grievances.

LBS 4154 Workers and Diversity (3). The theoretical debates surrounding the workforce participation of women and minorities as well as the historical position of these groups in the labor force are studied. Students explore social phenomena that contribute to the continuation of discriminatory practices and study and analyze the policies that attempt to address these issues. Prerequisite: Junior or Senior standing.

LBS 4210 Women and Work in the United States (3). The role of women in the work force and in unions with historical, social, and economic emphasis.

LBS 4260 Union Leadership and Administration (3). Administration of labor organizations; labor policies and practices; legal requirements and financial administration of unions. Prerequisite: LBS 3001.

LBS 4401 Labor Contract Negotiations (3). A comprehensive study of collective bargaining with emphasis upon the private sector. Included will be negotiations and scope of contracts, day-to-day contract administration, and major bargaining issues.


LBS 4501 Labor Law (3). Studies the history and current functioning of labor law with special emphasis upon the private sector.

LBS 4610 Cross Cultural Dimensions of Latin American Labor Relations (3). A survey of the issues, techniques, and professional competencies required to effectively understand and contribute to furthering fluid and productive labor management relationships in the hemisphere.

LBS 4653 Labor Movements in Developing Countries (3). The role that unions play in developing or recently developed countries; the relationship between economic development strategies and union structure/strategy; role of unions in representing popular social sectors; special emphasis on Latin American and Asian labor movements.

LBS 4654 Comparative and International Labor Studies (3). A study of labor issues from a comparative and international perspective with emphasis upon the impact of international organizations on labor relations systems and a comparison among major labor relations models.

LBS 4900 Directed Study in Labor Studies (3). Supervised reading and/or field research and training.

LBS 4905/4930 Topics in Labor Studies (1-3). Selected topics or themes in Labor Studies. The themes will vary from semester to semester. With a change in content, course may be repeated.

LBS 4949 Cooperative Education in Labor Studies (1-3). One or two semesters of part or full-time work
LBS 5155 Workplace Diversity (3). Students examine theoretical debates surrounding workforce participation of women and minorities; historical position of these groups in labor force; social phenomena that contribute to discriminatory practices and development of policies to eliminate discriminatory practices.

LBS 5406 Collective Bargaining and Labor Relations (3). A comprehensive study of major issues and themes in American collective bargaining. Includes origins of collective bargaining, labor law, unionization, contract negotiations patterns in contract content, impact of external laws, public sector unions, grievance arbitration, and interest arbitration. Prerequisites: Permission of Instructor.

LBS 5464 Labor Arbitration (3). Study of labor dispute resolution with emphasis on grievances, fact-finding, and arbitration.

LBS 5465 Introduction to Mediation (3). Examines the role of mediation in resolving civil, commercial, family, public and workplace disputes. Incorporates mediation principles and skills, different approaches to mediation, and current research in mediation. Prerequisites: Permission of Instructor.

LBS 5466 Family Mediation (3). Provides a comprehensive understanding of conflict resolution, power and balances, emotional and psychological issues, negotiation techniques as well as the development of practical skills in the field of family mediation. Prerequisites: Permission of Instructor.

LBS 5467 Civil Mediation (3). A comprehensive understanding of the field of civil mediation as well as the development of the practical skills to be a civil mediator. Prerequisites: Permission of Instructor.

LBS 5485 Fundamentals of Conflict Resolution (3). Survey of the major contemporary theories of organizational functioning and the management of conflict within and among organizations in a globalized world. Theories that center primarily within the fields of dispute resolution, sociology, and social interaction/group theory will be emphasized. Prerequisites: Permission of Labor Studies Program.

LBS 5507 Labor and Employment Law (3). Familiarizes the student with the legal issues and rules regarding unionization of employees, the collective bargaining process, the relationship between the employee and his/her union, and the administration of collective bargaining agreements. Examines the legal framework within which collective bargaining occurs and also familiarizes students with additional issues of rights in employment. Prerequisites: Permission of Instructor.

LBS 5658 Labor Movements and Economic Development (3). Relationships between unions and economic development strategies in developing/recently developed countries; emphasis on social movement unionism and unions in Latin America and Asia. Prerequisites: Permission of Instructor.

LBS 5930 Topics in Labor Studies (1-3). Selected topics or themes in Labor Studies. Themes will vary from semester to semester. With a change in content, course may be repeated. May include field work. Prerequisite: Graduate standing.

LBS 5931 Topics in the Philosophy and Methods of Conflict Research (3). Provides an examination of the philosophy, methods, and research in the field of conflict resolution. The particular content and orientation of the course may vary according to the particular focus examined. Prerequisites: Permission of Instructor.
Mathematics

Enrique Villamor, Professor and Chairperson
Gerardo Aladro, Associate Professor
Tedi Draghici, Assistant Professor
Julian Edward, Associate Professor
Doritilla Fox, Instructor
Susan Gorman, Instructor
Steven M. Hudson, Associate Professor
George Karkoulis, Associate Professor
Shinai Kouranbaeva, Assistant Professor
Mark Leckband, Associate Professor
Thomas Leness, Assistant Professor
Bao Qin Li, Associate Professor
Diana McCoy, Instructor
Abdelhamid Meziani, Professor
Richard Nadel, Instructor
Tajie Ramsamujh, Associate Professor
David Ritter, Associate Professor
Michael Rosenthal, Instructor
Dev K. Roy, Associate Professor
Richard L. Rubin, Associate Professor
Philippe Rukimbira, Associate Professor
Anthony C. Shershin, Associate Professor
Minna Shore, Instructor
Theodore Tachim Medjo, Assistant Professor
Graham Taylor, Assistant Professor
Louis Roder Tcheugoue Tebou, Assistant Professor
John Zweibel, Associate Professor

An undergraduate student may major in Mathematics or in Mathematical Sciences. The Bachelor's degree in Mathematics emphasizes a deeper study of pure mathematics in the traditional mode. A student planning to continue into graduate study should major in Mathematics.

The Mathematical Sciences degree offers an alternative involving more breadth. The mathematical requirements, which are fewer and tend to be more applied, are supplemented by additional requirements in computer science and applied statistics.

Bachelor of Science in Mathematical Sciences

Degree Program Hours: 120

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Required Courses

Common Prerequisites
MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Calculus III
COP 2210 Introduction to Programming
COP 2250 Java Programming

Completion of two of the following courses with labs:
BSC 1010 General Biology I
BSC 1010L General Biology Lab I
BSC 1011 General Biology II
BSC 1011L General Biology Lab II
BSC 1011L General Biology Lab II

Required Courses

MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Calculus III
COP 2210 Introduction to Programming

Electives

The balance of the 60 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

Remarks: The following courses are not acceptable for credit toward graduation, unless a student has passed the course before declaring a Mathematical Sciences major: MAC 2233, STA 1013, STA 3122-23, STA 2023, and QMB 3150 (College of Business Administration).

Minor in Mathematical Sciences

Required Courses
MAC 2311-2.3. Calculus I,II,III (or equivalent).

Plus four courses from those approved for the Mathematical Sciences Major program. MAP 2302 and MAS 3105 may be included among these four courses. A grade of 'C' or higher is necessary for the minor.

Remarks: Courses completed elsewhere may be applied to the Mathematical Sciences minor, with the approval of the department. However, at least 2 of the 4 courses noted above, excluding MAC 2311-2.3, must be completed at FIU.

Bachelor of Science in Mathematics

Degree Program Hours: 120

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Required Courses

Common Prerequisites
MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Calculus III
COP 2210 Introduction to Programming

Electives

The balance of the 60 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.
PHY 2048L  Physics with Calculus  Lab I
PHY 2049  Physics with Calculus II
PHY 2049L  Physics with Calculus  Lab II

Courses required for the degree:
MAP 2302  Differential Equations
MAS 3105  Linear Algebra

Upper Division Program
Required Courses
MAA 3200  Introduction to Advanced Mathematics  3
MAA 4211  Advanced Calculus  3
MAS 4301  Algebraic Structures  3
STA 4321  Mathematical Statistics I  3

In addition, three courses from each of the following lists.
List 1
MAD 4203  Introduction to Combinatorics  3
MAA 4402  Complex Variables  3
MTG 3212  College Geometry  3
MAS 4213  Number Theory  3
MAA 4212  Topics in Advanced Calculus  3
MAS 4302  Topics in Algebraic Structures  3
MTG 4302  Topology  3

List 2
MAP 4401  Advanced Differential Equations  3
MAD 3305  Graph Theory  3
MAP 3103  Mathematical Modeling  3
STA 4322  Mathematical Statistics II  3
MAD 3401  Numerical Analysis  3
MHF 4302  Mathematical Logic  3
MHF 4102  Axiomatic Set Theory  3

Electives
The balance of the 60 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

Minor in Mathematics
Required Courses
MAC 2311-2-3 Calculus I-I-III (or equivalent).
Plus four courses from those approved for the Mathematics Major program. MAP 2302 and MAS 3105 may be included among these four courses. A grade of 'C' or higher is necessary for the minor.

Remarks: Courses completed elsewhere may be applied to the Mathematics minor, with the approval of the department. However, at least 2 of the 4 courses noted above, excluding MAC 2311-2-3, must be completed at FIU.

Certificate in Actuarial Studies
The department offers a certificate in Actuarial Studies. For further information refer to the Certificate section at the end of the College of Arts and Sciences’ section.

Course Descriptions
Definition of Prefixes

MAA 3200 Introduction to Advanced Mathematics (3). Topics include: naïve set theory, functions, cardinality, sequences of real numbers and limits. Emphasis on formal proofs. Prerequisite: MAC 2313. (F)

MAA 4211 Advanced Calculus (3). An intense study of the foundations of calculus. Topics may include: the real number system, continuity, differentiation, Riemann-Stieljes integration, and series of functions. Note: The student must complete MAA 3200 before attempting this course. Prerequisites: MAC 2313, MAS 3105 and MAA 3200. (S)

MAA 4212 Advanced Calculus II (3). A sequel to MAA 4211. Topics may include: theory of integration; analysis in several variables; and Fourier series. Prerequisite: MAA 4211.

MAA 4402 Complex Variables (3). An introduction to complex variables, beginning with the algebra and geometry of the complex number system. Topics include: complex functions; analytic functions; Cauchy's theorem and its consequences; Taylor and Laurent series; residue calculus; evaluation of real integrals and summation of series; conformal mapping. Prerequisites: MAC 2313, and MAP 2302 or MAA 4211. (F)

MAC 1105 College Algebra (3). Operations on polynomials, rational expressions, radicals; lines; cycles; inverse functions, exponential and logarithmic functions; systems of equations and inequalities. Students cannot receive credit for both this course and MAC 2147. Prerequisite: High school algebra. (F,S,SS)

MAC 1107 The Mathematics of Social Choice and Decision Making (3). Voting systems and their desirable properties. Weighted voting systems, fair division procedures, appointment methods and game theory. Prerequisite: working knowledge of high school algebra.

MAC 1114 Trigonometry (3). Trigonometric functions, identities, conditional equations, polar coordinates, vectors, polar graphs, complex numbers, DeMoivre's Theorem, conic sections. Student cannot receive credit for both this course and MAC 2132 Precalculus. Prerequisites: College Algebra or equivalent. (F,S,SS)

MAC 2147 Pre-calculus Mathematics (3). Topics to be covered include: functions, exponential and logarithmic functions, trigonometry and the basics of analytic geometry. Prerequisite: Two years of high school algebra. (F,S,SS)

MAC 2233 Calculus For Business (3). A one semester introduction to the basic notions of calculus. Specific topics include: Differential Calculus using polynomial, exponential and logarithmic functions, and its application to optimization; integral calculus with area and probability applications. Prerequisite: MAC 1105 or MAC 2147, with a grade of C or better or working knowledge of algebra. (F,S,SS)

MAC 2311 Calculus I (4). Limits, derivations and their formulas and applications, differentials, introduction to anti-derivatives, Riemann sums, the integral, Fundamental Theorem of Calculus. Prerequisite: Trigonometry or MAC 2132, with a grade of C or better. (F,S,SS)

MAC 2312 Calculus II (4). Applications of the integral, integration techniques, improper integrals, L'Hospital's rule, infinite series, Taylor series, polar coordinates, parametric
equations. Pre-requisite: MAC 2311, with a grade of C or better. (F.S,SS)

MAC 2313 Multivariable Calculus (4). This course deals with the differential and integral calculus of real valued multivariable functions. The topics include: directional and partial derivatives, gradients, and their applications; differential calculus of vector valued functions; multiple, iterated, line, and surface integrals. Prerequisite: MAC 2312 or equivalent with a grade of 'C' or better. (F.S,SS)

MAD 1100 Mathematics for Information Technology (3). Introduction to discrete mathematical structures with emphasis on applications to information technology: binary numbers, logic, sets, functions, recursion, combinatorics, graph theory, boolean algebras. Prerequisite: College Algebra.

MAD 2104 Discrete Mathematics (3). Sets, functions, relations, permutations, and combinations, propositional logic, matrix algebra, graphs and trees, Boolean algebra, switching circuits. Prerequisites: COP 2210 or CGS 2420 and MAC 2311. (F.S,SS)

MAD 3305 Graph Theory (3). An introduction to the study of graphs. Topics include the following: paths and circuits, connectedness, trees, shortest paths, networks, planar graphs, the coloring of graphs, and directed graphs. Applications of graphs to computer science will be discussed. Prerequisites: COP 2210 or CGS 2420 and either MAS 3105 or MAD 2104. (F.S,SS)

MAD 3401 Numerical Analysis (3). Basic ideas and techniques of numerical analysis. Topics include: finite differences, interpolation, solution of equations, numerical integration and differentiation, applications, introduction to applied linear algebra. This course will make extensive laboratory use of the computer facility. Prerequisites: COP 2210 or CGS 2420 and MAC 2312. (F.S,SS)

MAD 3512 Theory of Algorithms (3). Strings, formal languages, finite state machines, Turing machines, primitive recursive and recursive functions, recursive unsolvability. Prerequisite: MAD 2104. Computer Science majors must also take COT 3420. (F.S,SS)

MAD 4203 Introduction to Combinatorics (3). A survey of the basic techniques of combinatorial mathematics. Topics will include the Pigeonhole Principle, Binomial Coefficients, Inclusion-Exclusion, Recurrence Relations, and Generating Functions. Prerequisites: MAC 2313 or both MAC 2312 and MAD 2104. (SS)

MAP 2302 Differential Equations (3). An introduction to differential equations and their applications, based upon a knowledge of calculus. Topics to include: initial value problems of the first order, numerical solutions, systems of differential equations, linear differential equations, Laplace transforms, series solutions. Prerequisite: MAC 2312 with a grade of 'C' or better. (F.S,SS)

MAP 3103 Mathematical Modeling and Applications (3). A course to provide an understanding of the use of mathematical models in the description of the real world. Basic principles in the philosophy of formal model building as well as specific models will be considered. Prerequisites: MAS 3105 and either MAC 2313 or MAP 2302.

MAP 3104 Topics in Mathematical Modeling (3). A sequel to MAP 3103. In-depth study of techniques listed for MAP 3103. Prerequisite: MAP 3103.

MAP 4401 Advanced Differential Equations (3). A second course in differential equations. Topics may include: Bessel functions and other special functions arising from classical differential equations, Sturm-Liouville problems, partial differential equations, transform techniques. Prerequisites: MAP 2302 and MAC 2313. (S)

MAS 3105 Linear Algebra (3). An introduction to the topics in linear algebra most often used in applications. Topics include: matrices and their applications; simultaneous linear equations and elementary operations; linear dependence; vector spaces; rank and inverses; inner products and 'best' approximations; numerical solutions of simultaneous linear equations; eigenvalues and eigenvectors; iterative methods for calculating eigenvalues; and systems of linear equations. Prerequisite: MAC 2312. (F.S,SS)

MAS 3931 Topics in Actuarial Mathematics (1). Topics related to calculus/linear algebra such as monotone sequences, least upper bound, complex arithmetic, solid analytic geometry, linear transformations. Mathematics involved in insurance. Prerequisites: Admission to Actuarial Studies Certificate program.

MAS 4213 Number Theory (3). Topics to be discussed are selected from the following: congruences, Diophantine equations, distribution of primes, primitive roots, quadratic reciprocity, and classical theorems of number theory. Prerequisites: MAA 3200 or MAD 2104 or permission of the instructor. (SS)

MAS 4301 Algebraic Structures (3). An introduction to abstract mathematical structures of modern algebra. Fundamental concepts of groups, rings, and fields will be studied. Note: the student must complete MAA 3200 before attempting this course. Prerequisites: MAS 3105 and MAA 3200. (S)

MAS 4302 Topics in Algebraic Structures (3). A sequel to Algebraic Structures. Topics may include: a continuation of the study of groups, rings and/or fields; polynomial domains; Euclidean domains; and Galois theory. Prerequisite: MAS 4301.

MAT 2949 Cooperative Education in Mathematical Sciences (1-3). One semester of full-time supervised work in an outside organization taking part in the University Co-op program. A written report and supervisor evaluation will be required of each student. Prerequisites: Calculus I and COP 2210.

MAT 3905 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations.

MAT 3930 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAT 3949 Cooperative Education in Mathematical Sciences (1-3). One semester of full-time supervised work in an outside organization taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation will be required of each student. Prerequisites: Calculus II and COP 2212.

MAT 4905 Independent Study (VAR). Individual conferences, assigned readings, and reports on independent investigations.

MAT 4930 Special Topics (VAR). A course designed to give groups of
students an opportunity to pursue special studies not otherwise offered.

MAT 4943 Mathematical Sciences Internship (VAR). A special program to encourage students to get on-the-job experience in computer sciences, statistics, or mathematics in an industrial enterprise, governmental agency or other organization. Requirements: minimum grade of 'B' or higher in all courses in the major area, and approval by Departmental Internship Committee. Application is required at least one term in advance of registration for this course.

MAT 4949 Cooperative Education in Mathematical Sciences (1-3). One semester of full-time supervised work in an outside organization taking part in the University Co-op Program. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation will be required of each student. Prerequisites: Calculus II, a statistics course, and COP 2120.

MGF 1106 Finite Mathematics (3). Study of concepts and applications involving finite mathematical processes such as sets, combinatorial techniques, formal logic, discrete probability, linear systems, matrices, linear programming. Prerequisite: Working knowledge of high school algebra. (F,S,SS)

MGF 1107 The Mathematics of Social Choice and Decision Making (3). Voting systems and their desirable properties. Weighted voting systems, fair division procedures, apportionment methods and game theory.

MHF 3404 History of Mathematics (3). Development of mathematical thought through the ages. Topics may include equation solving, trigonometry, astronomy, and calculus. Prerequisite: MAC 2312. (S)

MHF 4102 Axiomatic Set Theory (3). Axioms of set theory, order and well-foundedness, cardinal numbers, ordinal numbers, axiom of choice, special topics. Prerequisites: MAA 3200 or permission of the instructor. (S, alternate years)

MHF 4302 Mathematical Logic (3). A study of formal logical systems and their applications to the foundations of mathematics. Topics to be selected from the following: definition of mathematical proofs; set theory; analysis formalized with the predicate calculus; theorem of Godel and Church; recursive function theory; idealized computers. Prerequisite: MAA 3200 or MAD 3512. (S, alternate years)

MHF 5325 Theory of Recursive Functions (3). Turing machines, decision problems, coding, s-m-n theorem, Rice's and Myhill's theorems, oracles, degrees, finite and infinite injury constructions. Prerequisite: MHF 4302 or COT 5420.

MTG 3212 College Geometry (3). A study of the basic structure of Euclidean geometry together with topics from advanced Euclidean geometry and non-Euclidean geometry. Prerequisite: Calculus II or permission of the instructor. (S)

MTG 4302 Topology (3). An introductory course in topology requiring a prerequisite knowledge of calculus. Topics to be discussed will be selected from the following: topological spaces, metric spaces, continuity, completeness, compactness, separation axioms, products spaces, subspaces, convergence, and homotopy theory. Prerequisites: MAC 2313, MAS 3105, and MAA 3200. (SS)

STA 4603-STA 4604 Mathematical Techniques of Operations Research I and II (3-3). An introduction to those topics in mathematics associated with studies in operations research. Topics include the following: linear programming and related topics, dynamic programming, queuing theory, computer simulation, network analysis, inventory theory, decision theory, integer programming. Prerequisites: MAS 3105 and either STA 3033 or STA 4322.
Modern Languages

Isabel Castellanos, Professor and Chairperson
Aurelio Baldor, Instructor
Pascale Becel, Associate Professor
Jean-Robert Cadely, Associate Professor
Eric Camayd-Freixas, Assistant Professor
Ricardo Castells, Associate Professor
James O. Crosby, Professor Emeritus
Leonce A. de la Cuesta, Professor
Asuncion Gomez, Assistant Professor
Yvonne Guevara-Villate, Professor Emerita
John B. Jensen, Professor
Danielle Johnson-Cousin, Associate Professor
Santiago Juan-Navarro, Associate Professor
Peter A. Machonis, Associate Professor
Ramon Mendoza, Professor (Biscayne Bay Campus)
Marin Montero-Demos, Associate Professor
Ana Roca, Professor
Reinaldo Sanchez, Professor
Juan Torres-Pou, Assistant Professor
Maida Watson, Professor
Marcelle Welch, Professor
Theodore Young, Associate Professor
Florence Yudin, Professor

Bachelor of Arts

Degree Program Hours: 120

Lower Division Preparation

Common Prerequisites

French
FRE 1120 French I
FRE 1121 French II
FRE 2200 Intermediate French

Required for the Major:
FRE 2241 Oral Communication Skills

Portuguese

Common Prerequisites
POR 1130 Portuguese I
POR 1131 Portuguese II
POR 2200 Intermediate Portuguese

Required for the Major:
POR 3400 Advanced Oral Communication

Spanish

Common Prerequisites
SPN 1120 Spanish I
SPN 1121 Spanish II
SPN 2200 Intermediate Spanish

Required for the Major:
SPN 2210 Oral Communication Skills

or Intermediate Spanish for Native Speakers

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Upper Division Program: (60)

Required Courses

Foreign Language 33 semester hours
Electives 27 semester hours

Students in the Teacher Preparation Program carry two majors: Modern Language and Modern Language Education and must request admission to both programs. (Students interested in teacher certification should contact the College of Education at 348-2721.)

Requirements for all Modern Language Majors

All majors must have a designated faculty advisor, and all are required to take 33 semester hours in the Department of Modern Languages, with a grade of 'C' or higher.

Requirements For Spanish Majors

To undertake a major in Spanish, a student must demonstrate a proficiency in the language at the intermediate level. This may be done by an examination administered by the Department, or by completing SPN 2200 (non-native speakers) or SPN 2340 (native speakers).

Required credits for Major (33)
(21 credits of Core Courses and 12 credits of electives)

Core Courses

SPN 3301 Review Grammar and Writing 3

or

SPN 3341 Advanced Spanish for Native Speakers 3

SPN 3422 Advanced Grammar and Composition 3

SPW 3820 Peninsular Spanish Literature 3

SPW 3130 Spanish American Literature 3

SPN 3733 General Linguistics (or equivalent) 3

One additional course in Spanish Linguistics 3

One additional course in Spanish or Spanish American Literature 3

(Students who have advanced proficiency in Spanish may replace the six language credits with electives in Spanish at the 3000 or 4000 level with the written permission of their advisors).

Elective Courses

Twelve credits of electives in Spanish at the 3000 or 4000 level from a range of courses in Spanish/Spanish American literature, Spanish linguistics, Hispanic culture, and Translation/Interpretation.

SPN 3733 General Linguistics (or equivalent) is a prerequisite for other linguistics offerings.

Requirements for French Majors

(33)

Basic Courses:

Grammar (6)
FRE 3420 Review Grammar/ Writing I (non-native or near-native speakers)
FRE 3421 Review Grammar Writing II
FRE 4422 Review Grammar/ Writing III

Conversation (3)
FRE 3410 Advanced French Conversation (non-native or near-native speakers)
FRE 3413 Communication Arts
FRE 3504 Language and Culture

Phonetics (3)
FRE 3780 French Phonetics
Advanced Courses:

Literature (at least nine credits)
FRW 3200 French Literature I or
FRW 3201 French Literature II or
FRW 3810 Literary Analysis
Two 3-credit literature courses (FRW) preferably taken in different literary periods or genres.

Linguistics (3)
FRE 4840 History of the Language I
FRE 4841 History of the Language II
FRE 4503 Francophonie
FRE 4850 Structure of Modern French

Civilization (6)
FRE 3504 Language and Culture
FRE 3500 History of French Society
FRE 4501 Contemporary French Society
Minor in General Translation Studies
In order to obtain an academic minor in General Translation Studies, a student takes 12 semester hours in translation/interpretation courses (FOT, FRT, or SPT prefix), with grades of B or better, and nine additional hours in courses of immediate relevance to the program, to be approved by the Director of the program. Normally these will be selected from among offerings in Political Science, Economics, International Relations, Sociology, Anthropology, Computer Science or Modern Languages. At least two of them should be taken outside of Modern Languages. Courses in basic and intermediate instruction shall not be counted for the minor.

Minor in Spanish Language and Culture

Required Credits for Minor
Fifteen credits of Core Courses and three credits of electives. Total: 18 semester hours.

Core Courses
- SPN 3301 Review Grammar and Writing 3
- or
- SPN 3341 Advanced Spanish for Native Speakers 3
- SPN 3733 General Linguistics (or equivalent) 3
- SPW 3820 Peninsular Spanish Literature 3
- SPW 3130 Spanish American Literature 3
- One SPN course on Culture 3

Elective Courses
Three credits in Spanish at the 3000 or 4000 level in language, culture, or translation/interpretation.

Students who have advanced proficiency in Spanish may replace SPN 3422 Review Grammar and Writing or SPN 2341 Advanced Spanish for Native Speakers with another upper-level Spanish elective with the written permission of their advisors.

SPN 3733 (or equivalent) is a prerequisite for other linguistics offerings.

Basic Language Instruction
The department offers three-semester sequences of instruction in beginning and intermediate Arabic, Chinese, French, German, Hebrew, Italian, Japanese, Portuguese, Spanish, Russian, and beginning instruction in other languages.

The courses in basic language instruction are designed primarily for persons wishing to acquire conversational ability in a foreign language; but they provide training in all four language skills listening, speaking, reading, and writing. Students are advised to consult the Departmental course listing for specific sections.

Course Descriptions

Definition of Prefixes
ARA-Arabic Language; CHI-Chinese Language; FOL-Foreign Languages; FOT-foreign Languages in Translation; FOW-foreign Languages, Comparative Literature; FRE-French Language; FRT-French Translation; FRFW-French Literature (Writings); GER-German Language; GET-German Translation; HBR-Hbrew; ITA-Italian Language; ITT-Italian Translation; JPN-Japanese Language; LIN-Linguistics; POR-Portuguese Language; P0W-Portuguese Literature (Writings); PRT-Portuguese Translation; RUS-Russian Language; SPN-Spanish Language; SPT-Spanish Translation; SPW-Spanish Literature (Writings).

(See English listing for additional Linguistics courses.)

ARA 3130 Arabic I (5). Provides training in the acquisition and application of basic language skills.

ARA 3131 Arabic II (5). Provides training in the acquisition and application of basic language skills.

ARA 3210 Intermediate Arabic (3). Provides intermediate training in the acquisition and application of basic language skills. Prerequisite: One year prior study or equivalent experience.

CHI 3130 Chinese I (5). Provides training in the acquisition and application of basic language skills.

CHI 3131 Chinese II (5). Provides training in the acquisition and application of basic language skills.

CHI 3210 Intermediate Chinese (3). Provides intermediate training in the acquisition and application of basic language skills. Prerequisites: One year prior study or equivalent experience.

FIL 4528 Hispanic Culture: Women and Film (3). Images and roles of Hispanic women in Latin America,
Spain and the United States. Discussion, analysis, and writing. Course aims to enhance students' understanding of women in Hispanic culture through films and readings.

FIL 5526 Spanish Film (3). The history of film in Spain and discussions of films by the most important 20th Century directors.

FIL 5527 Latin American Film (3). The study of 20th Century films and documentaries produced by leading Latin American directors. Films are examined in relation to Latin American Society and its literary creations.

FOL 1000 Elementary Foreign Language (3). Emphasis on oral skills, contemporary language and culture. Content oriented to students with specific professional or leisure interests. For languages not often taught. This course is not part of a series. No prerequisites.

FOL 3013 Language Skills for Professional Personnel (3). The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).

FOL 3732 Romance Linguistics (3). The common and distinctive Romance features. Survey of linguistic geography and internal/external influences.

FOL 3905 Independent Study (1-3). Project, field experience, readings, or apprenticeship.

FOL 3930 Special Topics (3). Readings and discussion of literary/linguistic topics to be determined by students and teacher.

FOL 3949 Cooperative Education in Modern Languages (3). A student majoring in one of the Humanities (English, History, Modern Languages, Visual Arts or Performing Arts) may spend one or two semesters fully employed in industry or government in a capacity related to the major. Prerequisite: Permission of Cooperative Education Program and major department.

FOL 3955 Foreign Study (3-12). Study abroad credits. Individual cases will be evaluated for approval.

FOL 4905 Independent Study (1-3). Project, field experience, readings, or research.

FOL 4930 Special Topics (3). Independent readings, research, or project.

FOL 4935 Senior Seminar (3). Topics and approach to be determined by students and instructor.

FOL 4949 Cooperative Education in Modern Languages (3). A student majoring in one of the Humanities (English, History, Modern Languages, Visual Arts or Performing Arts) may spend one or two semesters fully employed in industry or government in a capacity related to the major. Prerequisite: Permission of Cooperative Education Program and major department.

FOL 4958 Foreign Study: Advanced Language Literature (VAR 3-12). Study abroad credits. Individual cases will be evaluated for approval.

FOL 5735 Romance Linguistics (3). The common and distinctive Romance features. Survey of linguistic geography and internal/external influences.

FOL 5906 Independent Study (1-3). Project, field experience, readings, or research.

FOL 5945 Foreign Exchange Internship (0). Foreign exchange students perform graduate research in the Department of Modern Languages and English as a corequisite to their assistantship in the Modern Languages Department. Prerequisite: Admission to the Foreign Exchange Program.

FOT 2120 Literature in Translation (3). Masterpieces of French literature in English. Comparative use of the original text. Discussion and interpretation.

FOT 3800 Translation/Interpretation Skills (3). Emphasis on basic principles and practice application.

FOT 3810 Creative Writing/Translation (3). Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.

FOT 4130 European Literature in Translation (3). For students proficient in more than one foreign language. Content and focus to be determined by students and instructor.

FOT 4801 Professional Translation/Interpretation (3). Techniques and resources for professional translation and interpretation. Prerequisite: FOT 3800.

FOT 5125 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

FOT 5805 Translation/Interpretation Arts (3). The language barrier and translation and interpretation. Types, modes, and quality of T/I: philological, linguistic, and socio-linguistic theories. History of T/I from Rome to date. The impact of T/I on Inter-American developments. Prerequisite: Graduate standing or permission of the instructor.

FOW 3520 Prose and Society (3). The dynamics of participation and alienation between prose writers and their environment.

FOW 3540 Bicultural Writings (3). Experiment in linguistic pluralism. Content and focus to be determined by the international community.

FOW 3580 Intellectual History (3). The interaction or dissociation among writers in a critical historical period. Study of primary sources and their contemporary evaluations.

FOW 3582 Literature of Reform (3). The consciousness of change in verbal art.

FOW 3584 Literature of Repression (3). The consciousness of constraints, their adoption and/or rejection in verbal art.

FOW 4152 European Literature in Translation (3). For students proficient in more than one foreign language. Content and focus to be determined by students and instructor.

FOW 4390 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FOW 4590 Creative Modes (3). Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism. The peculiar/common features of expressive media.

FOW 4790 The Literary Generation (3). The real and apparent shared ideals of an artistic generation, its influence and range.

FOW 4810 Problems in Reading and Interpretation (3). The identification and appreciation of techniques for sensitive reading and discussion of literary texts.
FRE 2243 Intermediate Business French (3). Introduces the minor and non-major to the culture, economy, and commerce of modern-day France. Extensive practice in business writing and communication. Conducted in French. Prerequisite: FRE 1121.

FRE 3410 Advanced French Conversation (3). To develop oral proficiency skills and a greater awareness of French culture.

FRE 3413 Communication Arts (3). Develop communicative competence through intensive oral class work. Emphasis on ability to express ideas and appreciation of multiple aspects of French culture.

FRE 3420 Review Grammar/Writing I (3). Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

FRE 3421 Review Grammar/Writing II (3). Instruction and practice in expository writing in French, with emphasis on organization, correct syntax, and vocabulary building. Prerequisite: FRE 3420.

FRE 3441 Advanced Business French (3). Provides intermediate training in the acquisition and application of business skills from an applied language vantage point. Prerequisite: FRE 3440 or permission of the instructor.

FRE 3500 History of French Civilization (3). Open to any student who understands the target language. The development of a particular civilization. Emphasis on the evolution of a society, its ideas and its values.

FRE 3504 Language and Culture (3). Emphasis on oral skill applied to contemporary culture, to enhance student’s knowledge and understanding of French way of life in Francophone world. Emphasis is also placed on acquisition and intensive practice of vocabulary and grammar. Prerequisites: FRE 3410 or permission of the instructor.

FRE 3740 Applied Linguistics (3). Examination of available linguistic materials for self-instruction. Problem solving in syntax and phonetics, through the application of modern/traditional methods.

FRE 3780 French Phonetics (3). An introductory course in French linguistics. Includes the International Phonetic Alphabet and a systematic inventory of all the sounds of French, with refinement exercises in the language laboratory. Prerequisites: FRE 2200 or equivalent.


FRE 3820 Dialectology (3). Definition and analysis. Problem-solving in dialect classification.

FRE 4391 French Cinema (3). In-class viewing and discussion of selected French films to develop knowledge and understanding of this important aspect of French culture from beginnings to the present. Prerequisites: FRW 3200 or FRW 3810 and another FRW course.

FRE 4422 Review Grammar/Writing III (3). A study of various aspects of forms and styles, with emphasis on expository writing in French. Prerequisite: FRE 3421.

FRE 4470 Foreign Study: Advanced Language/Literature (3-15). Full-semester credit for foreign residence and study/work. (Approval of Department required.)

FRE 4501 Contemporary French Society (3). Course designed specifically for beginning university students with no previous language study. Emphasis on oral French and on acquiring basic language skills.

FRE 4503 La Francophonie (3). Analysis of the different varieties of French spoken outside of France. Includes Quebec French, African French, and French Creoles. Also examines the political alliance of Francophone countries. Credit will not be given for both FRE 4503 and FRE 5508. Prerequisites: FRE 3780 or LIN 3010 or LIN 3013.

FRE 4791 French Phonology (3). Contrasts in the sound systems of English and French.
FRE 4800 French Morphology (3). Contrast in the morphology and syntax of English and French.

FRE 4840 History of the Language I (3). The internal and external history of the French language from Latin to Old French. Examination of some of the first texts written in French. Prerequisites: FRE 3780 or LIN 3010 or LIN 3013.

FRE 4841 History of the Language II (3). External and internal history of the French language from 1400 to the present. Examination of first dictionaries and grammars of French. Survey of recent linguistic legislation concerning the French language. Prerequisites: FRE 3780 or LIN 3010 or LIN 3013.

FRE 4850 Structure of Modern French (3). Systematic study of the phonology, morphology, syntax, and lexicon of Modern French. Taught in English. Prerequisites: FRE 3780 or LIN 3010.

FRE 4935 Senior Seminar (3). Topic and approach to be determined by students and instructor.

FRE 5060 Language for Reading Knowledge I (3). Designed primarily for graduate students who wish to attain proficiency for M.A. and Ph.D. requirements. Open to any student who has no prior knowledge of the language.

FRE 5061 Language for Reading Knowledge II (3). Emphasis on translation of materials from the student's field of specialization. Prerequisite: FRE 5060 or equivalent.

FRE 5508 La Francophonie (3). Analysis of the different varieties of French spoken outside of France. Includes Quebec French, African French, and French Creoles. Also examines the political alliance of Francophone countries. Credit will not be given for both FRE 4503 and FRE 5508. Prerequisites: FRE 3780 or LIN 3010 or LIN 3013.

FRE 5735 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of Department required.)

FRE 5755 Old French Language (3). Introduction to the phonology, morphology, and syntax of the Old French language. Reading and analysis of the 12th and 13th century texts in their original. Comparison of major medi-
eval dialects. Prerequisite: FRE 4840 or FRE 5845.

FRE 5845 History of the Language I (3). The internal and external history of the French language from Latin to Old French. Examination of some of the first texts written in French. Credit will not be given for both FRE 4840 and FRE 5845. Prerequisite: FRE 3780.

FRE 5846 History of the Language II (3). External and internal history of the French language from 1400 to the present. Examination of first dictionaries and grammars of French. Survey of recent linguistic legislation concerning the French language. Credit will not be given for both FRE 4841 and FRE 5846.

FRE 5855 Structure of Modern French (3). Systematic study of the phonology, morphology, syntax, and lexicon of Modern French. Taught in English. Credit will not be given for both FRE 4850 and FRE 5855.

FRE 5908 Independent Study (1-3). Project, field experience, readings, or research.

FRT 3800 Basic Translation Exercises (3). Emphasis on basic principles and practice application. Prerequisite: FRE 3421.

FRT 4801 Professional Translation (3). Techniques and resources for professional translation. Prerequisite: FRT 3800.

FRT 5805 Translation/Interpretation Arts (3). Techniques of professional translation and interpretation. Prerequisite: FRT 4801.

FRW 3200 French Literature I (3). Close reading and analysis of prose and poetry from the Middle Ages to the 17th Century.

FRW 3201 French Literature II (3). Close reading and analysis of French prose, theatre, and poetry, from the 18th to the 20th century. Prerequisites: FRW 3421 or FRT 4422.

FRW 3280 French 19th Century Novel (3). Four major novels by major 19th century novelists will be selected to illustrate the development of novelist techniques as well as of a different conception of the role of the novel that finally made it an important literary genre. Prerequisite: FRW 3810 or another FRW course.

FRW 3300 French Comedies (3). A study in French comedies from the 15th century to the 19th century, with special emphasis on Molière's plays. Prerequisite: FRW 3200.

FRW 3323 French 19th Century Drama (3). Plays will be chosen to illustrate various literary movements in 19th century French drama: Romanticism, Realism, Naturalism, and Symbolism. Prerequisite: FRW 3200.

FRW 3370 French 19th and 20th Century Short Stories (3). Great short stories by Maupassant, Merimee, Flaubert, Camus, and Sartre will be studied to familiarize the student with literary criticism by a close reading and analysis of short texts. Prerequisite: FRW 3421.

FRW 3532 French Romantic Literature (3). A study of French Romantic generation through the works of Lamartine, Hugo, de Musset, etc. Prerequisite: FRW 3200.

FRW 3810 Literary Analysis (3). The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

FRW 3905 Independent Study (3). Project, field experience, readings, or apprenticeship.

FRW 3930 Special Topics (3). Readings and discussion of literary/linguistic topics to be determined by students and instructor.

FRW 4123 Travel, Exile, and Cross-Cultural Encounters (3). Drawing on writings from the turn of the century to the present, explores the roles of exile and escape, of cultural and visual appropriations, the repetition and deconstruction of exotic clichés.

FRW 4212 French Classical Prose (3). Study of major works of 17th century French authors such as Descartes, Pascal, La Rochefoucauld, La Bruyere, etc. Prerequisites: FRW 3200, and another FRW course.

FRW 4218 18th Century French Prose (3). Major works by the 18th century French philosophers that illustrate the evolution of socio-political and aesthetic thought leading to the French Revolution. Prerequisites: FRW 3200 or FRW 3810 and another FRW course.

FRW 4272 French Novels from the Classical Period (3). A study of major 17th and 18th century French novels. Course conducted in French. Prerequi-
sites: FRW 3200, and another FRW course.

FRW 4281 French 20th Century Novel (3). A detailed analysis of modern novels, and a general examination of the intellectual currents which these novels illustrate or express (e.g. surrealism, existentialism, nouveau roman, post-modernism. Prerequisites: FRW 3200, and another FRW course.

FRW 4310 Seventeenth-Century French Drama (3). A study of French classical aesthetics through the plays of Corneille, Molière, and Racine. Prerequisites: FRW 3200, and another FRW course.

FRW 4324 French 20th Century Theatre (3). Focuses on the scope and variety of contemporary French theatre from Claudel, through existentialism and the theatre of the absurd, to Cixous and Césaire. Prerequisites: FRW 3200, and another FRW course.

FRW 4390 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FRW 4410 French Medieval Literature (3). A study in different literary forms prevalent during the 12th and 15th centuries. Read in modern French; course will be conducted in French. Prerequisites: FRW 3200, and another FRW course.

FRW 4420 Sixteenth-Century French Literature (3). A study of major authors of the French Renaissance, Rabelais, Ronsard, Montaigne, etc. Course conducted in French. Prerequisites: FRW 3810 or 3820, and another FRW course.

FRW 4583 Women Writers in French (3). Drawing on the writings of women authors in French, this course explores topics such as: the effects of narrative techniques on subject formation, the poetics of silence and of revolt, sexual difference versus cultural difference. Prerequisites: FRW 3810 or 3820, and another FRW course.

FRW 4590 Creative Modes (3). Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism. The peculiar/common features of expressive media.

FRW 4750 Francophone Literature of Africa (3). Introduction to the Francophone literatures of Africa; study of a literary tradition in French, with special emphasis on post-World War II writers. Prerequisites: FRW 3200 or another FRW course.

FRW 4751 Francophone Literature in the Caribbean (3). Introduction to the Francophone literature of the Caribbean; study of a literary tradition in French, with special emphasis on post-World War II writers. Prerequisites: FRW 3200 or another FRW course.

FRW 4905 Independent Study (1-3). Project, field experience, readings, or research. Prerequisites: 4930 or 4955 and approval of the Department.

FRW 4930 Special Topics (3). Independent readings, research, or project.

FRW 5395 Genre Studies (3). Examination of a single literary form (e.g., short story, poetry), or the study of interaction between literary types (e.g., novel and drama).

FRW 5934 Special Topics in Language Literature (3). Content and objectives to be determined by student and instructor.

FRW 5938 Graduate Seminar (3). Topic and approach to be determined by students and instructor. (Approval of the Department required.)

GER 1170 German I (5). Provides training in the acquisition and application of basic language skills.

GER 1171 German II (5). Provides training in the acquisition and application of basic language skills.

GER 2210 Intermediate German (3). Provides intermediate training in the acquisition and application of basic language skills. Prerequisites: One year prior study or equivalent experience.

GER 2240 German Intermediate Conversation (3). This course is designed to help students maintain and increase their conversational ability in the language while unable to continue the regular sequence. May be repeated twice. Prerequisite: GER 1121 or equivalent.

GER 3420 Review Grammar/Writing I (3). Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

GER 4905 Independent Study (1-3). Project, field experience, readings, or research.

GER 4930 Special Topics (3). Independent readings, research, or project.

GER 5060 German for Reading Knowledge (3). Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who has no prior knowledge of the language.

GER 5061 German for Reading Knowledge (3). Emphasis on translation of materials from the student's field of specialization. Prerequisite: GER 5060 or the equivalent.

GET 3100 Literature in Translation (3). Masterpieces in German literature in English. Comparative use of the original text. Discussion and interpretation.

HAI 3213 Accelerated Haitian Creole (3). Emphasis on oral skills, contemporary language, and culture.

HAI 3214 Accelerated Intermediate Haitian Creole (3). Builds on accelerated course by continuing and expanding communicative activities. Prerequisites: Accelerated Haitian or permission of the instructor.

HAI 3370 Haiti: Study Abroad (3). Orientation to Haiti's history, geography, religious practices, and social customs through classroom instruction, reading, and discussion, culminating in a two week tour of Haiti.

HAI 3500 Haiti: Language and Culture (3). Provides, from a multidisciplinary perspective, a general understanding of the Haitian culture and language.

HAI 5235 Haitian Creole Seminar (3). A study of the phonological and morpho-syntactic structures of Haitian Creole. Patterns of language usage and attitude. Prerequisite: Graduate standing.

HBR 1120 Hebrew I (5). Provides training in the acquisition and application of basic language skills.

HBR 1121 Hebrew II (5). Provides training in the acquisition and application of basic language skills.

HBR 2200 Intermediate Hebrew (3). Provides training in the acquisition and
application of basic language skills. Prerequisites: One year prior study or equivalent experience.

ITA 1120 Italian I (5). Provides training in the acquisition and application of basic language skills.

ITA 1121 Italian II (5). Provides training in the acquisition and application of basic language skills.

ITA 2210 Intermediate Italian (3). Provides intermediate training in the acquisition and application of basic language skills. Prerequisites: One year prior study or equivalent experience.

ITA 2240 Italian Intermediate Conversation (3). This course is designed to help students maintain and increase their conversational ability in the language while unable to continue the regular sequence. May be repeated twice. Prerequisite: ITA 3131 or equivalent.

ITA 3420 Review Grammar/Writing I (3). Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

ITA 3421 Review Grammar/Writing II (3). Instruction and practice in expository writing in Italian, with emphasis on organization, correct syntax, and vocabulary building. Prerequisite: ITA 3420 or permission of the instructor.

ITA 4905 Independent Study (1-3). Project, field experience, readings, or research.

ITA 4930 Special Topics (3). Independent readings, research, or project.

ITT 3110 Literature in Translation (3). Masterpieces of Italian literature in English. Comparative use of the original text. Discussion and interpretation.

JPN 1120 Japanese I (5). Provides training in the acquisition and application of basic language skills.

JPN 1121 Japanese II (5). Provides training in the acquisition and application of basic language skills.

JPN 3210 Intermediate Japanese (3). Provides intermediate training in the acquisition and application of basic language skills. Prerequisites: One year prior study or equivalent experience.

JPN 3XXX Intermediate Japanese II (3). To help students maintain and further improve their speaking, writing, listening, and reading skills in Japanese in more complex situations. Students learn how to use useful expressions of experience and thought in advanced level of Japanese. Prerequisite: Intermediate Japanese I.

JPN 3XXX Japanese Culture and Calligraphy (3). To give students sociocultural knowledge and well-rounded understanding of the culture and society in Japan. Students also have an opportunity to experience Japanese traditional arts including Japanese Calligraphy.

LIN 3010 General Linguistics (3). Examination and synthesis of the concepts and perspectives of major contributions to language theory. Equivalent to SPN 3733. Students who take SPN 3733 may not receive credit for LIN 3010 or LIN 3013.

LIN 3200 Phonetics (3). The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity. Prerequisite: LIN 3010 or equivalent.

LIN 3610 Dialectology (3). Definition and analysis. Problem-solving in dialect classification. Prerequisite: LIN 3010 or equivalent.

LIN 4326 Contrastive Phonology (3). For students proficient in more than one foreign language. Choice of languages to be determined by students and instructor. Prerequisite: LIN 3010 or equivalent.

LIN 4433 Contrastive Morphology (3). For students proficient in more than one foreign language. Content and emphasis to be determined by students and instructor. Prerequisite: LIN 3010 or equivalent.

LIN 4620 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisite: LIN 3010 or equivalent.

LIN 4702 Applied Linguistics (3). Examination of available linguistic materials for self-instruction. Problem-solving in syntax and phonetics, through the application of modern/traditional methods. Prerequisite: LIN 3010 or equivalent.

LIN 4722 Problems in Language Learning (3). Primarily designed for prospective teachers, but open to all interested students. The course will aim to devise approaches to difficulties commonly experienced in syntax, usage, reading and comprehension. Prerequisite: LIN 3010 or equivalent.

LIN 4931 Special Topics in Linguistics (3). Provides the opportunity for students and instructor to explore topics not included in the regular course offerings. Content to be determined.

LIN 4XXXX Bilingualism and Language Policies (3). Linguistic diversity and language policies in North America. The sociolinguistic situation of selected heritage speakers, particularly Hispanic and Asian groups, and issues in bilingualism. Prerequisites: LIN 3010 or equivalent.

LIN 5207C Acoustic Phonetics (3). Introduction to principles of acoustic and instrumental phonetics, including the physics of speech sounds and use of the sound spectrograph and other instruments. Prerequisites: LIN 3010, LIN 3013, plus one additional course in phonetics or phonology. Corequisite: One of the prerequisites may be counted as a corequisite.

LIN 5601 Sociolinguistics (3). Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables.

LIN 5603 Language Planning: Linguistic Minority Issues (3). Introduction to the field of language planning. Minority linguistic issues in developing and developed nations: official languages, endangered languages, and language as problem and/or resource.

LIN 5604 Spanish in the United States (3). An examination of the sociolinguistic research into Spanish in the U.S.: varieties of Spanish, language attitudes, language contact and change, and aspects of language use. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

LIN 5613 Dialectology (3). The geography of language variation: linguistic geography, atlases, national and regional studies. Dialectology within a modern sociolinguistic framework; research approaches.

LIN 5625 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals.
LIN 5720 Second Language Acquisition (3). Research, theories, and issues in second language acquisition. Topics include the Monitor Model, the role of the first language, motivation, age, individual differences, code-switching, and the environment; affective variables and attitudes.

LIN 5725 Seminar: Issues in Language Learning (3). Seminar in applied linguistics to serve as introduction to theory, research, and practice in language. Examines difficulties experienced in learning syntax, oral comprehension, usage, etc. Prerequisite: LIN 3010 or LIN 3013 or SPN 3733 or equivalents.

LIN 5760 Research Methods in Language Variation (3). Research in sociolinguistics, dialectology, bilingualism: problem definition, instrument design, data collection and analysis, including sampling techniques and statistical procedures. Prerequisite: LIN 5601, LIN 5625, LIN 5613 or other course in variation.

LIN 5825 Pragmatics (3). Study of the relationships between language form, meaning, and use. Special emphasis on speech act theory. Prerequisites: LIN 3010, LIN 3013, or SPN 3733.

(See English listing for additional Linguistics courses.)

POR 1000 Elementary Portuguese (3). Emphasis on oral skills, contemporary language, and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.

POR 1130 Portuguese I (5). Provides training in the acquisition and application of basic language skills.

POR 1131 Portuguese II (5). Provides training in the acquisition and application of basic language skills.

POR 2200 Intermediate Portuguese (3). Provides intermediate training in the acquisition and application of basic language skills. Prerequisites: One year prior study or equivalent experience.

POR 3230 Accelerated Portuguese I (5). Accelerated course for students fluent in Spanish. Encourages rapid acquisition by intensive exposure to the language through immersion activities, videos, and culture.

POR 3231 Accelerated Portuguese II (5). Accelerated course for students fluent in Spanish. Builds on Accelerated Portuguese I by continuing and expanding communicative activities. Prerequisite: POR 3230 or permission of the instructor.

POR 3244 Portuguese Intermediate Conversation (1). This course is designed to help students maintain and increase their conversational ability in the language while unable to continue the regular sequence. May be repeated twice. Prerequisite: POR 3231 or equivalent.

POR 3400 Advanced Oral Communication (3). Development of oral skills through a variety of activities: Readings and recitations, public speaking, debate, skits, video production and drama. Open to native and non-native speakers. Prerequisite: Oral communicability in Portuguese.

POR 3420 Review Grammar/Writing I (3). Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

POR 3421 Review Grammar/Writing II (3). Examination of grammatical theory; discussion of the modern essay. Practice in the detection and correction of errors in usage. The course will focus on current international events as content for informal talks and compositions.

POR 3440 Portuguese for Business (3). Presents the special language needs for conducting business in Portuguese, with emphasis on the commerce and culture of modern Brazil. Practice in correspondence, documents, and presentations. Prerequisite: POR 1131, POR 3230 or equivalent.

POR 3500 Luso-Brazilian Culture (3). Open to any student who understands Portuguese. The development of Portuguese speaking civilizations, with emphasis on either Portugal or Brazil: history, art, music, daily life, impact on other cultures.

POR 3930 Special Topics in Language Linguistics (3). Readings, research, and discussion of topics in Portuguese language or linguistics to be determined by students and instructor.

POR 4470 Foreign Study: Advanced Language Literature (VAR). Up to a full semester credit for foreign residence and study/work. (Approval of Department required.)

POW 4390 Brazilian Cinema (3). An examination of Brazilian films and culture from Cinema Novo to the present. Focuses on the northeast, urban society, magic and the Amazon. Taught in Portuguese.

POW 4905 Independent Study (1-3). Project, field experience, readings, or research.

POW 4930 Special Topics (3). Independent readings, research, or project.

PRT 3401 Literature in Translation (3). Masterpieces of Portuguese literature in English. Comparative use of the original text. Discussion and interpretation.

PRT 3800 Portuguese Translation I (3). Review of theories and processes. Extensive practice in translating a variety of short texts, with emphasis on accuracy.

PRT 3810 Introduction to Portuguese Translation and Interpretation (3). Fundamentals of translation processes, contrastive analysis of structures in Portuguese and English. Exercise in the accurate rendition of ideas from one language to the other. Prerequisite: PRT 3420 or permission of the instructor.

PRT 3812 Portuguese Interpretation I (3). Beginning interpretation with emphasis on consecutive and sight translation. Memory development, note-taking, techniques of public speaking, accent reduction. Prerequisite: PRT 3800.

PRT 4801 Portuguese Translation II (3). Translation of medium-length texts covering a range of specific topics and prose styles attention to both accuracy and style. Prerequisites: PRT 3800.

PRT 4802 Portuguese Translation III (3). Emphasis on technical and literary translation; development of special glossaries; stylistic and grammatical challenges. Prerequisite: PRT 4801.

PRT 4813 Portuguese Interpretation II (3). Continued work with consecutive interpretation but emphasize the simultaneous mode, including research and graded laboratory practice. Work with the speaking voice. Prerequisite: PRT 3812.
PRT 4814 Portuguese Interpretation III (3). Simultaneous conference interpreting: extensive class and laboratory practice and field experience. Prerequisite: PRT 4811.

PRT 4XXX International Perspectives in Brazilian Cinema (3). Addresses cinema production in Brazil in an international context, with special emphasis on the post-Embratfilme era and international co-production.

RUS 1120 Russian I (5). Provides training in the acquisition and application of basic language skills.

RUS 1121 Russian II (5). Provides training in the acquisition and application of basic language skills.

RUS 2210 Intermediate Russian (3). Provides intermediate training in the acquisition and application of basic language skills. Prerequisites: One year prior study or equivalent experience.

SPN 1000 Elementary Spanish (3). Emphasis on oral skills, contemporary language and culture. Content oriented to students with specific professional or leisure interests. This course is not part of a series. No prerequisites.

SPN 1030 Elementary Spanish for Medical Personnel (5). Conversational elementary Spanish for medical personnel. Recommended for non-native speakers of Spanish who are in nursing or other health-related professions.

SPN 1120 Spanish I (5). Course designed specifically for beginning university students with no previous language study. Emphasis on oral Spanish and on acquiring basic language skills.

SPN 1121 Spanish II (5). Emphasis on oral Spanish and on acquiring basic language skills.

SPN 2200 Intermediate Spanish I (3). Provides intermediate training in the acquisition and application of basic language skills. Prerequisites: One year prior study or equivalent experience.

SPN 2201 Intermediate Spanish II (3). Last course of a four-semester sequence which implements a proficiency-oriented approach. Focuses on the development of listening and reading comprehension skills, and encourages maximum oral interaction and the practice of writing.

SPN 2210 Oral Communications Skills (3). Development of oral skills through skits, debates, and contextualized communication. Prerequisites: SPN 1121 or equivalent.

SPN 2230 Intermediate, Readings in Spanish (3). Provides opportunities to develop fluency. Emphasis on selected literary and/or cultural readings; films and group activities intended to stimulate communication and enhance an understanding of Hispanic culture. Prerequisites: SPN 1121 or equivalent. Corequisite: SPN 2200 recommended.

SPN 2240 Intermediate Spanish Conversation (3). This course is designed to help students maintain and increase their ability in the language while unable to continue the regular sequence. May be repeated twice. Prerequisite: SPN 1121 or equivalent.

SPN 2270 Foreign Study (6). Intermediate level. One semester full-time credit for foreign residence and study. Individual cases will be evaluated for approval.

SPN 2340 Intermediate Spanish for Native Speakers (3). Improvement of spelling, grammar, vocabulary, reading, writing, and oral skills for Hispanic bilinguals educated in the U.S., with less than two years of formal training in Spanish but whose mother tongue is Spanish. Prerequisite: Ability to understand Spanish.

SPN 2346 Intermediate Spanish for Native Speakers II (3). Develop cultural and linguistic competence through intensive oral and written work. Emphasis will be given to reading and writing skills. Prerequisite: SPN 2340.

SPN 3013 Language Skills for Professional Personnel (3). The course is geared to the special linguistic needs of the community groups (medical, business, technical, etc.).

SPN 3031 Intermediate Spanish for Medical Personnel (3). Provides intermediate training in the acquisition and application of medical language skills. Prerequisite: SPN 1030 or permission of the instructor.

SPN 3301 Review Grammar and Writing (3). Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language. For non-native speakers.

SPN 3341 Advanced Spanish for Native Speakers (3). Improvement of literacy skills through grammar review, composition, and selected readings of representative Hispanic writers, including Cuban, Puerto Rican, and Chicano authors. For U.S. Hispanic bilinguals with at least two years of formal training in Spanish. Prerequisite: SPN 2340 or permission of the instructor.

SPN 3401 Advanced Conversation (3). Improvement of oral proficiency and listening comprehension skills, correction of accent, vocabulary building. Use of small group conversation, pronunciation tapes, and varied outside readings.

SPN 3410 Advanced Oral Communication (3). Development of oral skills through a variety of speaking and conversational activities: public speaking, debate, drama, recitation. For native speakers and advanced non-natives. Prerequisite: Oral ability in Spanish.

SPN 3413 Communication Arts (3). Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language.

SPN 3422 Advanced Grammar and Composition (3). To consolidate the student’s command of oral and written Spanish. Advanced readings of authentic materials. Preparation and documentation of written monographs. For natives and advanced non-natives. Prerequisites: SPN 2341, SPN 3301 or equivalent.

SPN 3440 Spanish Business Composition/Correspondence (3). Training in the special writing needs of business: letter-writing, memoranda, brochures, advertising, proposals, declarations, government documents, etc.

SPN 3520 Spanish American Culture (3). Introduction to the major artistic and cultural phenomena in Latin America. Art, music, film, and literature will be discussed in their cultural context. Prerequisite: Ability to understand Spanish at advanced level.

SPN 3702 Applied Linguistics (3). Examination of available linguistic materials for self-instruction. Problem-solving in syntax and phonetics, through the application of modern/tra-
SPN 3733 General Linguistics (3).
Examination and synthesis of the concepts and perspectives of major contributions to language theory. (Conducted in Spanish.) Equivalent to LIN 3010. Students who take LIN 3010 may not receive credit for SPN 3733 or LIN 3013.

SPN 3780 Phonetics (3).
The application of phonetic theory and practice for speech refinement. Study of sound patterns in communication and creative activity. Prerequisite: LIN 3010 or equivalent.

SPN 3820 Dialectology (3).
Definition and analysis. Problem-solving in dialect classification. Prerequisite: LIN 3010 or equivalent.

SPN 4312 Introduction to Spanish Syntax (3).
An introduction to Spanish syntax. Topics include an introduction to syntactic analysis and syntactic phenomena of Spanish. Prerequisites: LIN 3010 or equivalent.

SPN 4470 Foreign Study: Advanced Language Literature (12).
Full semester credit for foreign residence and study/work. (Approval of the Department required.)

SPN 4500 Spanish Culture (3).
Open to any student who understands the target language. The development of a particular civilization. Emphasis on the evolution of a society, its ideas and its values.

SPN 4790 Contrastive Phonology (3).
Contrasts in the sound systems of English and Spanish. Prerequisite: LIN 3010 or equivalent.

SPN 4802 Contrastive Syntax (3).
Contrasts in the grammatical systems of English and Spanish with emphasis on structures with equivalent meanings. Recommended for students of translation and interpretation. Prerequisite: LIN 3010 or permission of the instructor.

SPN 4822 Hispanic-American Sociolinguistics (3).
Language and society in Latin America. Sociolinguistic theory followed by consideration of specific language problems in Spanish and Portuguese speaking areas of the Americas. Prerequisite: LIN 3010 or equivalent.

SPN 4840 History of the Language (3).
The internal and external history of language development. Examination of model texts from key periods of evolution. Prerequisite: LIN 3010 or SPN 3733 or equivalent.

SPN 4905 Independent Study (1-3).
Project, field experience, readings, or research.

SPN 4930 Special Topics in Linguistics (3).
Provides the opportunity for students and instructor to explore topics not included in the regular course offerings. Content to be determined.

SPN 4936 Senior Seminar (3).
Topic and approach to be determined by students and instructor.

SPN 5060 Language for Reading Knowledge (3).
Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who has no prior knowledge of the language.

SPN 5061 Language for Reading Knowledge (3).
Emphasis on translation of materials from the student's field of specialization. Prerequisite: SPN 5060 or the equivalent.

SPN 5525 Spanish American Culture (3).
A graduate survey of the major artistic phenomena in Latin America. Art, music, film, and literature will be discussed in their cultural context. Prerequisite: Graduate standing and permission of the instructor.

SPN 5536 Afro-Cuban Culture (3).
Explores the role played by blacks in Cuban culture. Issues studied include: Afro-Cuban religions, languages, and music, as well as the Afro-Cuban presence in literature and the arts.

SPN 5537 Special Topics in Afro-Hispanic Culture (3).
Close examination of various topics related to the culture of African diaspora groups in the Hispanic world.

SPN 5705 The Structure of Spanish (3).
An introduction to Spanish linguistics. Topics include Spanish phonetics, phonology, morphology, and syntax. Students who have previously taken Syntactic Structures of Spanish and/or Sound Structure of Spanish will not receive credit for this course. Prerequisites: LIN 3010 or equivalent.

SPN 5725 Syntactic Structures of Spanish and English (3).
An in-depth study of syntactic structures in Spanish and English, with an emphasis on how linguistic theory can account for the similarities and differences between the two languages. Prerequisites: LIN 3010 or equivalent.

SPN 5805 Morphological Structures of Spanish and English (3).
A survey of the morphologies of Spanish and English. Topics include the difference between isolating and synthetic languages, rich vs. impoverished agreement, and syntactic ramifications of morphology. Prerequisites: LIN 3010 or equivalent.

SPN 5807 Syntactic Structures of Spanish (3).
The study of syntactic structures in Spanish, topics include different syntactic approaches to current issues in Spanish syntax. Prerequisites: LIN 3010 or equivalent.

SPN 5824 Dialectology of the Spanish Caribbean (3).
Study of varieties of Spanish used in the Caribbean area, including Miami-Cuban Spanish. The course will take historical and contemporary perspectives and will involve research among informants in South Florida. Prerequisites: LIN 3010 or LIN 3013.

SPN 5845 History of the Language (3).
Historical development of the Spanish language, primarily from the point of view of internal linguistic change. Spanish as an example of general processes of language development. Prerequisites: LIN 3010, LIN 3013.

SPN 5908 Independent Study (1-3).
Project, field experience, readings, or research.

SPT 3110 Literature in Translation (3).
Masterpieces of Hispanic literature in English. Comparative use of the original text. Discussion and interpretation.

SPT 3800 Foundations to Translation Skills (3).
Techniques of translation, in Spanish and English, applied to law, business, technology, and literature.

SPT 3812 Foundations of Interpretation (3).
Exercises in sight translation, consecutive and simultaneous interpretation in Spanish and English. Theory and practice.

SPT 4400 African Presence in Latin American Literature (3).
Studies a selection of relevant Latin American literary works (in translation) dealing...
SPT 4801 Translation Practica (3). Translation of media, literary, and scientific texts.

SPT 4802 Practica in Oral Translation and Interpretation (3). Sight translation into and out of English. Introduction to the study of terminology. Prerequisite: SPT 3812 or permission of the instructor.

SPT 4803 Practica in Legal Translation (3). Provides advanced training in translating most commonly used legal documents in both civil and criminal procedures.

SPT 4804 Practice in Legal Interpretation (3). Training in consecutive and simultaneous interpretation of both civil and criminal legal proceedings before Federal and State courts.

SPT 4805 Translation in Communication Media (3). Provide insight into the techniques of translation of advertising, public relations and publicity materials to be used in the mass media such as print and broadcasting.


SPT 4813 The Interpreter and Language (3). The interpreter as a linguistics expert. The stylistic levels of language. Legal jargon and street language in English and Spanish. Dialectal problems. Practical and ethical problems. Prerequisite: SPT 3812.

SPT 4814 Conference Interpreting (3). Interpreting for international conferences and for diplomacy. Intensive practice in simultaneous interpretation. Prerequisite: SPT 3812.

SPT 4820 Computer-Aided Translation (3). The translating machine and computer-aided translation. Machine operation. Selected applications of computer translating texts from various disciplines. Correction of translated texts with computers. Prerequisites: SPT 3800, CDA 2310, and permission of director of program.

SPT 4830 Interpreting for Business (3). The principles and techniques of interpreting in the context of a bilingual (Spanish/English) business setting. Consecutive, simultaneous interpretation and sight translation of business matters. Prerequisites: SPT 3800, SPT 3812 or permission of the instructor.

SPT 4940 Judicial Translation-Interpretation Internship (3). Students will spend a semester working in state and federal courts under the supervision of a professor, in order to practice in situations in what they have learned. Prerequisites: SPT 3800, SPT 3812, SPT 4801, SPT 4803, SPT 4804, SPT 4806, and SPT 4807.

SPT 4941 Professional Translation-Interpretation Internship (3). Students will spend a semester working in state and federal courts under the supervision of a professor, in order to practice in situations in what they have learned. Prerequisites: SPT 3800, SPT 3812, and permission of the instructor.

SPT 4XXX Medical Interpreting (3). Training medical interpretation, including ethics, professional standards, and roles of the medical interpreter. Extensive practice with authentic materials. Prerequisite: Bilingual students only (English/Spanish).

SPT 5118 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

SPT 5715 Hispanic Women Writers in Translation (3). Readings and analysis of Spanish and Spanish American women writers in translation. Emphasis on cultural and linguistic considerations involved in the translation of literary texts. Prerequisite: Graduate standing or permission of the instructor.

SPW 3130 Spanish American Literature (3). Close reading and analysis of prose, poetry and drama. Selections from Spanish American Literature. Prerequisite: SPN 3422 or equivalent and oral and written proficiency in Spanish.

SPW 3323 Garcia Lorca's Theatre (3). Readings from representative plays by Spain's finest dramatist of the 20th century, including his three well-known tragedies and a number of short comic plays. Discussion of such themes as social and individual justice and freedom; passion and repression; and the role of poetry in the theatre. Prerequisites: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 3324 Contemporary Spanish Drama: Buero Vallejo (3). Chronological readings from plays written between 1949-1980. Emphasis on dramatic reading. An examination of the evolution of dramatic art in the contexts of censorship and freedom. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 3342 Twentieth Century Spanish Poets (3). Readings from selected poets of the 20th century, such as Antonio Machado, Miguel Hernandez, Damaso Alonso, and Rafael Alberti. Close examination of the poems representative of these poets, and their contribution to the development of Spanish poetry from the Generation of 1898 to the middle of the 20th century. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 3371 The Latin American Short Story (3). Readings from the 19th century authors and such 20th century masters as Borges, Cortazar, Cabrera Infante, Garcia Marquez, and Rulfo. Examination of short-story techniques and of such themes as social satire, the nature of reality, reason, and irrationally. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.
SPW 3423 Masterworks of the Golden Age (3). Readings from selected masterpieces of the Spanish Renaissance and Baroque, such as La Celestina, Lazarillo de Tormes, and the short novels of Cervantes. Emphasis on satire and the representation of such human problems as freedom, poverty, and the rebellion of the individual. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 3520 Prose and Society (3). The dynamics of participation and alienation between prose writers and their environment. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 3604 Don Quijote (3). A careful reading and discussion of Cervantes’ Don Quijote, with particular attention to its multiple meanings in human terms, its innovative contributions to the novel in Europe, and the author’s use of irony, characterization, and humor. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 3720 The Generation of 98 (3). Based on the works of Azorin, Baroja, Gariyvet, Machado, Maetzu, Unamuno, and Valle-Inclán. This course will emphasize the individual thrust each author makes to foster artistic revolution and human regeneration, within a society characterized by apathy and existentialist anxiety. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 3810 Literary Analysis (3). The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

SPW 3820 Peninsular Spanish Literature (3). Close reading and analysis of prose, poetry, and drama. Selections from Spanish peninsular literature. Prerequisite: SPW 3422 or equivalent or oral and written proficiency in Spanish.

SPW 3930 Special Topics (3). Readings and discussion of literary/linguistic topics to be determined by students and instructor. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4133 Eastern Thought and Latin American Literature: The Age of Octavio Paz (3). An exploration of Eastern thought’s influence on Latin American literature since pre-Columbian times: emphasis on Octavio Paz and his contemporaries, in relation to 20th-century Western thought.

SPW 4263 The Spanish Novel of the Nineteenth Century (3). Within the context of literature and society, representative Spanish novels of the epoch will be studied. Special attention will be given to Galdos and Clarín. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4271 The Spanish Novel of the 20th Century (3). A study of the genre in Spain before and after the Civil War. Emphasis will be on predominant narrative tendencies. Representative authors will be discussed, such as Cela, Laforet, Sender, Matute, Medio, and others. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4280 Spanish American Novel I (3). A view of Spanish American narrative from Colonial times to the turn-of-the-century with focus on the development of literary trends and movements. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4281 Spanish American Novel II (3). Study of Spain America’s outstanding novelists: Guíraldes, Carpenter, Cortázar, Fuentes, Vargas Llosa, Donoso, and García Márquez. Considers their works in relation to Spanish American themes. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4300 Modern Spanish Drama (3). Examines the production of major Spanish playwrights from the middle of the 18th century to the present. Analyzes the social functions theatre has fulfilled in different periods, its intended audiences, and the poetics the authors represent. Prerequisite: SPW 3820 or SPW 3130.

SPW 4304 Latin American Theatre (3). A view of Latin American theatre from the 19th century to the present. Representative works of the most renowned dramatists will be examined, with emphasis on the works of Usigili, Triana, Márques Wolff, and Diaz. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4334 Golden Age Poetry (3). Selected readings from the major lyric poets of the 16th and 17th centuries. Special attention to the problems of contemporary readings of classical texts. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4343 Poetry of García Lorca (3). Chronological examination of the major works of Spain’s greatest poet. Special attention to the lyric and dramatic features. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4351 Spanish American Poetry I (3). A view of Spanish American poetry from the Pre-Colonial period until 1850. Representative works of the most renowned poets will be examined, with emphasis on Ercilla, Sor Juana, Bello, Heredia, and Avellaneda. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4352 Spanish American Poetry II (3). A view of Spanish American poetry from 1850 to the present. Representative works of the important poets will be examined, and special attention will be given to Lezama Lima, Parra, Paz, and Vallejo. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4364 The Spanish American Essay (3). A study of the ideological and intellectual forces that have shaped the Spanish American thought, as expressed in the works of representative authors such as Rodo, Malle, Martinez Estrada, Paz, Manach, and others. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4384 Spanish-American Literature Before Independence (3). Studies Spanish-American literature prior to Independence providing a general understanding of the development of literature from the Conquest to the Enlightenment. Prerequisite: SPW 3130 & SPW 3820 or permission of the instructor.

SPW 4390 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama). Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4391 Contemporary Spanish Cinema (3). Cinematographic modes of representing reality in the Spain of the post-Franco era. Focuses on class, race, gender, culture, aesthetics, and ideology.
SPW 4420 Quevedo’s Satire (3). An introduction to the literary world of Spain’s great baroque poet, who created modern satire in Spanish. Prerequisite: A good understanding of Spanish. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4424 Golden Age Drama (3). Close readings from the finest plays written in Spain’s Golden Age by Lope de Vega, Calderon, Tirso, and others, including the Don Juan theme. An examination of theatre as stylized conformity and as protest literature in a highly controlled society. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4440 18th Century Spanish Literature (3). Examines the most relevant poetry and prose produced by 18th century Spanish writers. Prerequisite: SPW 3130 & SPW 3820.

SPW 4470 Asia in 19th Century Hispanic Literature (3). Studies the formation and influence of Asia in 19th century Spanish and Spanish-American literary discourse.

SPW 4580 El Dorado in Hispanic Literature and Film (3). The Age of Discovery and Conquest in Hispanic literature and film. Considers the works of Columbus, Cadeza de Vaca and Lope de Aguirre in contrast with contemporary reconstructions of their lives. Prerequisite: SPW 3130 or permission of the instructor.

SPW 4590 Creative Modes (3). Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism. The peculiar/common features of expressive media. Prerequisite: SPW 3130 or SPW 3820 or permission of the instructor.

SPW 4930 Special Topics (3). Independent readings, research, or project.

SPW 5135 Spanish American Literature for Teachers (3). Overview of major trends in Spanish American literature. Especially designed for school teachers and majors in modern language education. Not for M.A. or Ph.D. Spanish majors. Prerequisite: Permission of the instructor.

SPW 5155 Comparative Studies (3). Cross-over and distinctiveness in a multi-language problem, period, or aesthetic.

SPW 5225 Textual Reading and Analysis (3). Studies how texts are constructed, the role played by Poetics and Rhetoric in their formulation, and the context in which they were produced. Prerequisites: Graduate standing.

SPW 5237 The Traditional Spanish American Novel (3). Study and analysis of the traditional Spanish novel as a form of art, from 19th century Lizardi’s El periquillo sammiento, to 1950. The novels and authors studied are representative of ‘costumbrismo’, ‘romanticismo’, ‘naturalismo’, ‘modernismo’, and ‘criollismo’.

SPW 5277 Twentieth Century Spanish Narrative (3). Analysis of the Spanish novel from Ferselisio’s El Jarama to the present. The perspective will be focused within historical, social, and artistic context. Representative authors such as Cela, Martin Santos, Umbral, Delibes, Benet, Goytisolo, and others will be included.

SPW 5286 Contemporary Spanish American Novel (3). A study of the Spanish American Novel from 1950. The course will intensively and extensively focus on the novelists who are best known for their innovations, defining and analyzing the qualities which give originality and newness both in themes and language.

SPW 5346 Poetry of Jorge Guillen (3). Selected readings from the five volumes of Aire nuestro. Emphasis on the techniques of close reading and explication. Related selections from Guillen’s literary criticism.


SPW 5359 Graduate Seminar: Poetry of Pablo Neruda (3). Chronological examination of the major works of Chile’s Nobel Laureate. Related readings from Neruda’s Memories. Emphasis on the poet’s linguistic and aesthetic innovations.

SPW 5387 Women and Poetry (3). Women as poets and the poetized. Close reading of Peninsular and Latin American texts, 16th - 20th Century. Students examine the contributions of women and how they have been represented in poetry. Prerequisite:

4000 or 5000 level course in Hispanic Poetry.

SPW 5405 Medieval Spanish Literature (3). Readings in Medieval literature of Spain including the epic, the learned poetry of the XIIIth and XIVth Centuries, and the literature of Juan II’s court. Prerequisites: Graduate standing and permission of the instructor.

SPW 5407 The Renaissance in Spain (3). Readings in the literature and cultural expressions of the Spanish Renaissance. Prerequisites: Graduate standing and permission of the instructor.

SPW 5408 Colonial Latin American Literature (3). The most important and representative literary works of Colonial Latin America from the Cronicas to Lizardi. Prerequisites: Upper level and graduate standing.

SPW 5425 Quevedo: Poetry (3). Close reading of selected poems by Spain’s greatest baroque poet and creator of modern Spanish satire, including poems on love, death, and metaphysical concerns, and a wide range of humorous poems.

SPW 5426 Quevedo: Prose Satire (3). Close reading of selected satires in prose by Spain’s greatest baroque satirist and creator of modern Spanish satire. Includes Quevedo’s picaresque novel El Buscon, and his Suenos, or Visions of Hell.

SPW 5428 Theatre in Calderon and Lope (3). The creation of verbal theatrical technique in the Baroque masters Calderon de la Barca and Lope de Vega.

SPW 5436 Poetry Writing in Spanish (3). Readings from Spanish and Latin American texts; description and recreation of traditional and experimental metrics. Students will exchange critiques of original poems. Prerequisites: sample of unpublished poems; wordprocessing literacy; permission of the instructor.

SPW 5475 19th Century Latin American Literature (3). A study of the main literary works of Spanish speaking 19th Century Latin America: Romanticism, Realism, Naturalism and Modernism. Prerequisites: Upper level and graduate standing.

SPW 5486 Modern Spanish Women Writers (3). Analysis of narrative works by Spain’s most representative
women writers from the 19th century to the present. Emphasis on the novel. Includes works by Pardo Bazan, Matute, Laforet, Martin Gaite. Prerequisites: Graduate standing or permission of the instructor.

SPW 5515 Advanced Studies in Hispanic Folklore (3). Studies the oral literary and linguistic tradition of the Hispanic world. Prerequisites: Graduate standing and permission of the instructor.

SPW 5535 Spanish Romanticism (3). Study of Spanish Romanticism through the analysis of major literary figures of the movement: Larra, Zorrilla, Espronceda, Castro and Becquer. Prerequisite: Graduate Standing.

SPW 5546 Hispanic Neoclassicism (3). Study of major Spanish and Spanish-American Neoclassic writers: Cadalso, Moratin, Jovellanos, Carrio de la Vendra, mier and Lizardi. Prerequisite: Graduate Standing.

SPW 5556 Spanish Realism and Naturalism (3). Readings in Spanish XIXth Century Novel of Realism and Naturalism including Alarcon, Perez Galdos, Pardo Bazan, Clarin and Blasco Ibanez. Prerequisites: Graduate standing and permission of the instructor.

SPW 5575 Spanish American Modernism (3). An in-depth study of prose and poetry of one of the most important periods of Spanish American literature, focusing on Marti, Dario, Najera, Casals, Silva, Valencia, Lugones, and Herrera y Reissig.

SPW 5585 Learning Technology in Spanish Pedagogy and Research (3). Exploration of the role of technology in today’s language and literature learning environment. Overview of the WWW, Network-based communication, and electronic databases related to Hispanic language and literature. Prerequisite: Graduate standing or advanced undergraduate with permission of the instructor.

SPW 5595 Magical Realism and Typologies of Non-Realist Fiction (3). Theories of magical realism, fantastic and non-realist fiction, focusing on narrative technique. Authors may include Onetti, Borges, Cortázar, Asturias, Carpentier, Rulfo, Márquez, Allende or others. Prerequisite: Graduate standing or permission of the instructor.

SPW 5606 Cervantes (3). A comprehensive introduction to the masterpieces of Cervantes as the creator of the modern novel, and to critical theories about his art.

SPW 5729 Major Writers of the Generation of ’98 (3). Study of the social and political circumstances of Spain at the turn of the XIX Century, and analysis of the work of Galdos, Azorin, Baroja, Machado, Maetz, Unamuno and Valle-Inclan. Prerequisite: Graduate standing or permission of the instructor.

SPW 5735 Hispanic Literature of the United States (3). Readings in the literature of Hispanics in the United States. Prerequisites: Graduate standing and permission of the instructor.

SPW 5756 Mexico in Poetry (3). Close reading of modern poets; discussion of essays on Theory and Practice. Students examine national representation in Myth, symbol and metaphor. Prerequisites: 4,000 or 5,000 level course in Culture of Literature.

SPW 5776 Black Literature in Latin America (3). An examination of the different genres in Latin American literature focusing on the life of Afro-Hispanics, from the beginning of this literary tradition to the present time. Prerequisite: Graduate standing.

SPW 5781 The Representation of women in Spanish Literature and Film (3). Study of cinematographic adaptations of Spanish novels, plays and short stories. Analyzes the representation of the female subject in both literary and filmic works. Prerequisite: Graduate standing or permission of the instructor.

SPW 5786 Spanish American Women Writers (3). Through a selection of poems, plays and novels, this course studies Spanish American women production from Independence to the present times. Prerequisite: Graduate students only.

SPW 5806 Methods of Literary Research (3). Introduction to bibliography, methods of research, the composition of essays, rhetoric, and the presentation of documentation. Theory of literary criticism, and its practical application to texts in Spanish.

SPW 5934 Special Topics in Language/Literature (3). Content and objectives to be determined by student and instructor.
School of Music

Fredrick Kaufman, Professor and Director (composition)
John Augenblick, Associate Professor and Director of Choral Studies (choral)
Kristine Burns, Assistant Professor (composition/electronic music)
Gary Campbell, Assistant Professor (saxophone/jazz studies)
John Cucureanu, Assistant Professor (theory/history)
Robert Davidovici, Professor/Artist-in-Residence (violin)
Robert B. Dundas, Assistant Professor Director of Voice/Opera Studies
Karen Fuller, Lecturer and Director of Performing Arts Production
Carolyn Fulton, Assistant Professor (music education/world music)
Orlando J. Garcia, Professor and Director, Graduate Programs/Music Composition
Kemal Gekic, Professor/Artist-in-Residence (piano)
Roby George, Assistant Professor and Director of Wind Studies
Mark Gregory Martin, Assistant Professor and Director of Marching Bands
Clair McElfresh, Professor Emeritus (choral)
Charles “Chip” McNeill, Associate Professor (jazz studies)
Michael Orta, Assistant Professor (jazz piano)
Carlos Piantini, Professor and Director of Orchestral Studies (orchestra/conducting)
Joseph Rohm, Associate Professor (theory)
Miguel Salvador, Associate Professor (piano)
Arturo Sandoval, Professor/Artist-in-Residence (trumpet)
Violet Vagramian-Nishanian, Professor and Director of Piano Accompanying (theory/history)
Michael Wagner, Professor (music education)

Miami String Quartet (Artists in Residence)
Ivan Chan, (violin/chamber music)
Chaucney Patterson, (viola/chamber music)
Cathy Meng Robinson, (violin/chamber music)
Keith Robinson, (cello/chamber music)

Adjunct Instructors:
Keith Aleo, percussion
Jay Bertolli, tuba
Lindsey Blair, jazz guitar

Robert Craft, Distinguished Professor of Music
John Dee, oboe
Jodie DeSalvo, accompanist
Loretta Dranoff, piano
Deborah Fleisher, harp
Felix Gomez, jazz piano
Luis Gomez-Imbert, string bass/new music ensemble/music appreciation
Frank Gonzalez, sound reinforcement
Robert Grabowski, jazz history/sound engineer, evolution of jazz
Paul Green, clarinet/chamber music
James Hacker, trumpet/chamber music
Geoffrey Hale, bassoon
Mark Hetzler, trombone
Jonathan Joseph, jazz drums
Suzanne Kirton, flute
Jose Lopez, piano/accompanying
Sam Lussier, jazz arranging/jazz lab band
Dennis Marks, jazz bass
Greg Miller, horn
Hector Nesiosup, Latin percussion
Mark Nerenhausen, music operations
Alan Ngim, accompanist
Nicky Orta, jazz bass, electric
Edward Pierson, voice
Nobleza Pilar, voice
Errol Racklaph, jazz vibes
Joann Schultz, organ
Henry Skolnick, bassoon/chamber music
Lee Stone, string techniques
Eric Swanson, classical guitar

Bachelor of Music

Degree Program Hours: 128

A Bachelor of Music degree is offered with an emphasis in one or more of the following areas: Applied Music, Composition, Jazz Studies, and Music Education (students will take a dual major in Music and Music Education – see Music Education in the College of Education for specific requirements). All entering students must provide evidence of performance ability (vocal or instrumental) through an audition. Contact the Music Department at (305) 348-2896 for more information or to schedule an audition.

Freshman/Sophomore Admission

Freshman admission requires an audition and placement test in Music Theory. Contact the Music Department at (305) 348-2896 for an audition appointment.

Transfer Admission

To qualify for admission to the program, FIU undergraduates must meet all the lower division requirements including CLAST.

completed 60 semester hours, and must be otherwise acceptable into the program.

Music students at the University come from a wide variety of academic backgrounds from Florida, other states and countries. Because of this diversity, the Basic Faculty of Music gives basic preliminary examinations in order to assist the student to eliminate any deficiencies:

1. Music History - consisting of all periods of history.
2. Music Theory - consisting of sight-singing, melodic and harmonic dictation and written harmonization and analysis.

Required for the degree:

Common Prerequisites:

MUT 1111 Music Theory I 3
MUT 1112 Music Theory II 3
MUT 2116 Music Theory III 3
MUT 2117 Music Theory IV 3
MUT 1221 Sightsinging I 1
MUT 1222 Sightsinging II 1
MUT 2226 Sightsinging III 1
MUT 2227 Sightsinging IV 1
MVK 1111 Class Piano I 1
MVK 1112 Class Piano II 1
MVK 2121 Class Piano III 1
MVK 2122 Class Piano IV 1

Four hours in one of the following:

MUN 1140 Symphonic Wind Ensemble
or
MUN 1210 Orchestra
or
MUN 1310 Concert Chorus/Men’s or Women’s Chorus

Eight hours of applied lessons

MUC 1342 MIDI Technology 2
Ethnomusicology (3)
MUH 3052 Music of the World 3
or
MUH 3541 Music of the Americas: Folklife & Beyond 3

Four instances of successful completion in the following:

MUS 1010 Recital Attendance

Junior/Senior Year Areas of Emphasis

The following are Junior/Senior Year areas of emphasis for Music students. Nine hours in elective courses outside the department are required by the College. Admission to each area is by faculty approval.

Area 1: Instrumental Performance (54)

Required Courses

Theory: (9)
MUT 3611 Form and Analysis 3
MUT 3401 Counterpoint 3
MUT 4311 Orchestration 2-3
History: (9)
MUH 3211 Music History Survey I 3
MUH 3212 Music History Survey II 3
MUH 3371 Twentieth Century Music: Exploration 3
Ethnomusicology (3)
MUH 3052 Music of the World 3
or
MUH 3541 Music of the Americas: Folklore & Beyond 3

Ensembles (8)
Two credits each semester enrolled in Applied Music (to be determined by advisor) 8
Major Applied (8)
Four semesters 2 credits each semester 8
Conducting (2)
MUG 4101 Basic Conducting 1
MUG 4302 Instrumental Conducting 1
Recitals: (0)
Junior Recital 0
Senior Recital 0

Recital Attendance (0)
To be taken each semester enrolled in Applied Music
MUS 3040 Recital Attendance 0
Electives: (6)
Music Electives 6
Electives outside the major 9

Area II: Vocal Performance (55)
Required Courses
Theory: (6)
MUT 3401 Counterpoint 3
MUT 3611 Form and Analysis 3
History: (9)
MUH 3211 Music History Survey I 3
MUH 3212 Music History Survey II 3
MUH 3371 Twentieth Century Music: Exploration 3
Ethnomusicology (3)
MUH 3052 Music of the World 3
or
MUH 3541 Music of the Americas: Folklore & Beyond 3
Ensembles (8)
Two credits each semester enrolled in Applied Music including four semesters of Opera Workshop. Others to be determined by advisor.
Major Applied (8)
MVV 3431 Junior Prin App 2
MVV 3431 Junior Prin App 2
MVV 4441 Senior Prin App 2
MVV 4441 Senior Prin App 2
Conducting (2)
MUG 4101 Basic Conducting 1
MUG 4202 Choral Conducting 1
Recitals: (0)
MVV 3970 Junior Recital 0
MVV 4971 Senior Recital 0

Recital Attendance
To be taken each semester enrolled in Applied Music
MUS 3040 Recital Attendance 0
Diction for Singers (4)
MUS 2211 English Diction 1
MUS 2221 French Diction 1
MUS 2231 German Diction 1
MUS 2241 Italian Diction 1
Electives (chosen in consultation with area advisor)
Music Electives 6
Electives outside the major 9

Area III: Composition (56)
Required Courses
Theory: (9)
MUT 3401 Counterpoint 3
MUT 3611 Form and Analysis 3
MUT 4311 Orchestration 3
History: (9)
MUH 3211 Music History Survey I 3
MUH 3212 Music History Survey II 3
MUH 3371 Twentieth Century Music: Exploration 3
Ethnomusicology (3)
MUH 3052 Music of the World 3
or
MUH 3541 Music of the Americas: Folklore & Beyond 3
Ensembles (6)
At least one ensemble each semester enrolled in Applied Music, including four semesters of New Music Ensemble, others to be determined by advisor. 6
Conducting (2)
MUG 4101 Basic Conducting 1
MUG 4202 Choral Conducting 1
or
MUG 4302 Instrumental Conducting 1
Principal Applied (4)
Four semesters, 1 credit each semester 4
Composition: (10)
MUC 2221 Composition I 2
MUC 2222 Composition II 2
MUC 3231 Composition III 2
MUC 3232 Composition IV 2
MUC 4241 Composition V 2
MUC 4932 Composition Forum 0

Completion of four semesters of Composition Forum is required for graduation.
Electronic Music: (4)
MUC 2301 Electronic Music Lab I 2
MUC 3302 Electronic Music Lab II 2
Recital Attendance (0)
To be taken each semester enrolled in Applied Music
MUS 3040 Recital Attendance 0
Recitals: (0)
Composition Recital 0
Senior Recital 0
Electives outside the major 9

should be taken during the sophomore year.

Composition students must present a 45 minute recital of their works and a 30 minute performance recital. A final oral exam administered after the composition recital must also be successfully completed. Composition students must earn a "B" or better in all theory, composition, and electronic music courses.

Area IV: Commercial/Jazz Performance (58)
Required Courses
Theory: (14)
MUT 4311 Orchestration 2-3
MUT 4535 Jazz Arranging 2
MUT 2641 Jazz Improvisation I 2
MUT 2642 Jazz Improvisation II 2
MUT 4643 Jazz Improvisation III 2
MUT 4644 Jazz Improvisation IV 2
MUT 4663 Jazz Styles and Analysis 2
History: (9)
MUH 3212 Music History Survey I 3
MUH 3371 Twentieth Century Music: Exploration 3
MUH 2116 Evolution of Jazz 3
Ethnomusicology (3)
MUH 3541 Music of the Americas: Folklore & Beyond 3
or
MUH 3052 Music of the World 3

Additional Music Courses: (31)
Ensembles (8)
Two credits each semester enrolled in Applied Music (To be determined by advisor) 8
Jazz Applied (8)
Four semesters major jazz applied 8
Conducting (3)
MUG 4101 Basic Conducting 1
MUG 4202 Choral Conducting 1
or
MUG 4302 Instrumental Conducting 1
MUN 4784 Jazz Rehearsal Techniques 1
Recitals: (0)
MVT 4971 Senior Jazz Applied Recital 0
MVJ 3970 Junior Jazz Recital 0
Recital Attendance
(To be taken each semester enrolled in Applied Music)
MUS 3040 Recital Attendance 0
Commercial/Jazz (3)
MUG 4301 Business of Music 1
MUH 1018 Intro to Jazz Studies 2
Electives: (9)
To be determined by advisor

1 Piano majors will take four credits (two years) of Classical Applied Piano instead of Class Piano.
Area V: Piano Performance (55)

Required Courses
Theory: (9)
MUT 3611 Form and Analysis 3
MUT 3401 Counterpoint 3
History: (15)
MUH 3211 Music History Survey I 3
MUH 3212 Music History Survey II 3
MUH 3371 20th Century Music 3
MUH 3052 Music of the World 3
MUH 4400 Keyboard Literature 3
Ensembles: (8)
Two semesters of large ensemble:
Choir, Wind Ensemble or Orchestra.
MUN 3463 Chamber Music (two semesters) 2
MUN 4513 Accompanying (four semesters) 4
Major Applied (8)
Four semesters, two credits each semester.
Conducting (1)
MUG 4101 Basic Conducting 1
Pedagogy (2)
MVK 4640 Piano Pedagogy 2
Recitals (0)
Junior Recital 0
Senior Recital 0
Recital Attendance (0)
MUS 3040 0
To be taken each semester enrolled in Applied Music
Electives
Music Electives 6
Electives outside of major 9

Minor in Music Composition
A minor in composition is available for students receiving the BM degree in areas of studies other than composition (e.g., jazz studies, applied, music education). In order to receive credit for a minor in composition students must successfully complete the following:

Courses
Theory
(beyond Freshman/Sophomore Theory and Sight Singing)
MUT 3611 Form and Analysis 3
MUT 4311 Orchestration 3
MUT 3401 Counterpoint 3
Composition
(beyond Basic Music Composition)
MUC 2221 Composition I 2
MUC 2222 Composition II 2
Electronic Music
(beyond MIDI Technology)
MUC 2301 Electronic Music I 2
MUC 3302 Electronic Music II 2
Forum
MUT 4932 Composition Forum (2 semesters) 0
Ensemble
MUN 2490 New Music Ensemble (1 semester) 1
Total 18

Bachelor of Science in Music Education: Grades K-12

Degree Program Hours: 134-136
The Bachelor of Science in Music Education degree is offered by the School of Music, within the College of Arts and Sciences. Changes of the curriculum, including new and revised courses, are done in collaboration with the College of Education to ensure compliance with certification and accreditation requirements. Application for this major must be made to the School of Music before admittance. An audition, theory, and piano placement exams are required prior to admittance. Any questions concerning this degree should be directed to the music Education Program Head 305-348-2896 or to Fredrick Kaufman, Director of the School of Music 305-348-2896.

Theory (12 credits)
MUT 1111 Music Theory I 3
MUT 1112 Music Theory II 3
MUT 2116 Music Theory III 3
MUT 2117 Music Theory IV 3
Sightsinging (4 credits)
MUT 1221 Sightsinging I 1
MUT 1222 Sightsinging II 1
MUT 2226 Sightsinging III 1
MUT 2227 Sightsinging IV 1
Class Piano (2 credits)
MVK 1111 Class Piano I
MVK 1112 Class Piano II
Music Education majors must pass the Piano Proficiency, Class Piano III and IV until proficiency is pass.

Music History (12 credits)
MUH 3052 Music of the World 3
MUH 3541 Music of Latin America 3
MUH 3211 Music History Survey I 3
MUH 3212 Music History Survey II 3
MUH 3371 20th Century Music 3
Music Technology (2 credits)
MUC 1342 MIDI Technology 2
Applied Music (11 credits)
Music Education majors are required to take two (2) credits of Applied Lessons each semester of their freshman and sophomore years, and one (1) credit each semester of junior year, and one (1) credit the semester not Student Teaching in the senior year.

Senior Recital (0 credits)
Music Education majors present their Senior Recital in the senior semester when not Student Teaching.

Ensembles (14 credits)
Music Education majors are required to take one major and one minor ensemble each semester. Music Education majors are not required to take ensembles while Student Teaching.

Recital Attendance (0 credits)
To be taken each semester enrolled in Applied Music.

Professional Foundation in General Education (27)
EDG 1005 Introduction to Education 3
EDG 2701 Teaching Diverse Populations 3
EME 2040 Introduction to Educational Technology 3
EDG 3321 Instructional Decision Making 3
EDG 3321L Instructional Decision Making Lab 3
EDG 3004 Educational Psychology 3
EDF 3515 Philos and Hist Foundations in Education 3
EDF 4643 Cultural and Social Foundations in Education 3

1 Requires field experience of 15 clock hours outside of class time.
At least one course taken to meet the natural science requirements in General Education and/or prerequisites must include a laboratory component.
In addition to EDG 2701, students must take 6 credit hours with an international or diversity focus in lower division.
To qualify for admission to the program, undergraduates must have met all the lower division/general education requirements including CLAST, minimum ACT, or SAT scores, completed 60 semester hours, 2.5 GPA, and must be otherwise acceptable into the program.
Music Education majors choose either the choral or Instrumental Track for Conducting and Techniques course: 5 credits:
Choral Music Education (5)

Conducting (2 credits)
MUG 4101 Basic Conducting 1
MUG 4301 Choral Conducting 1

Music Education Techniques (3 credits)
MVV 1111 Class Voices I 1
MVV 2121 Class Voice II 1
MVV 3630 Vocal Pedagogy 2
MVS 1116 Guitar Skills 1

Piano and Guitar majors only
*Voice majors for two credits,
Piano/Guitar majors for one credit

Instrumental Music Education (5)

Conducting (2 credits)
MUG 4101 Basic Conducting 1
MUG 4202 Instrumental Conducting 1

Music Education Techniques (3 credits)
MUE 2440 String Techniques 1
MUE 2450 Woodwind Techniques 1
MUE 2460 Brass Techniques 1
MUE 2470 Percussion Techniques 1

***Students are exempted from their major applied tech course

AND

Professional Foundation in Music Education (15 credits)

(Choral and Instrumental)
MUE 3340 Elementary Music Methods 3
MUE 4341 Secondary Music Methods 3
MUE 4940 Student Teaching in Music Education 9

Note: MUE 4940 is taken the semester following MUE 3340 and MUE 4341.

Course Descriptions

Definition of Prefixes

HUM-Humanities; MUC-Music:
Composition; MUE-Music: Education;
MUG-Music; Conducting; MUN-Music:
History/Musicology; MUL-Music: Literature; MUM-Music:
Commercial; MUM-Music: Ensembles;
MUS-Music; MUC-Music: Theory;
MVU-Applied Music/Brass; MVK-
Applied Music/Keyboard; MVJ-
Applied Music/Jazz; MVP-Applied
Music/Percussion; MVS-Applied
Music/Strings; MVV-Applied
Music/Voice; MVW-Applied
Music/Woodwinds.

MUC 1101 Basic Music Composition (1).
Elementary principles of composition including the performance of composition projects. Course includes calligraphy and notation skills. Course may be repeated for credit.

Prerequisites: Freshman music majors; permission of the instructor.

MUC 1342 MIDI Technology (2). Introduction to the MIDI protocol and MIDI-based software, including music notation, sequencing, patch editing, ear training, and keyboard skills software. Prerequisites: Music major or permission of the instructor.

MUC 2221 Composition I (2). Creative writing utilizing 20th century compositional techniques in Impressionism, Neoclassicism, Post Webern Serialism, Indeterminacy, Minimalism, Mixed, Multi and Inter media, etc. Prerequisite: MUC 1112. Corequisites: MUC 2116.

MUC 2222 Composition II (2). Continuation of MUC 2221. Prerequisite: MUC 2221. Corequisites: MUC 2117.

MUC 2301 Electronic Music Lab I (2). Exploration of the electronic medium including the history of electronic music, digital studio techniques, analog studio techniques, digital synthesis and analog synthesis. Prerequisite: MUC 1342.

MUC 3231 Composition III (2). A continuation of Composition I to further the development of students compositional capabilities through the writing of more evolved works with regard to duration, instrumentation. Prerequisites: MUC 2222 and admission to composition area.

MUC 3322 Composition IV (2). Continuation of MUC 3231. Prerequisite: MUC 3231.

MUC 3302 Electronic Music Lab II (2). A continuation of Electronic Music Lab I with an emphasis on advanced MIDI applications including samplers, digital sequencing, digital signal processing and interactive MIDI software. Includes one large composition project. Prerequisite: Electronic Music Lab I.

MUC 4241 Composition V (2). Continuation of MUC 3232. Prerequisite: MUC 3232.

MUC 4242 Composition VI (2). Continuation of MUC 4241. Prerequisite: MUC 4241.

MUC 4400 Electronic Music Lab III (2). Special projects in advanced electronic music programming environments including Csound, MAX, Interactor, HMSL and CHANT. Includes one large composition project. Can be repeated four times.

Prerequisite: Electronic Music Lab II and permission of the instructor.

MUC 4932 Composition Forum (0). Student composers' works are critiqued by faculty; topics of interest to composers are discussed. Required of all students taking Composition III and higher. Prerequisite: Admission to Composition Program.

MUC 5406 Electronic Music IV (2). An advanced course in computer music providing students hands-on experience with recently developed hardware and software for the creation of music. Prerequisite: MUC 4400.

MUC 5407 Electronic Music V (2). Students develop new hardware and/or software for uses related to musical composition. Prerequisite: MUC 5406.

MUC 5935 Composition Forum (0). Student composers present their work for critique by faculty and topics relevant to composition are presented by faculty and guests. Prerequisite: Admission into the graduate composition program.

MUC 5XXX Computer Music Seminar I (3). Introduces students to the historical contributions of computer music composers and engineers. Prerequisites: MUC 6305, MUC 6306. Corequisite: MUC 6405.

MUC 5XXX Computer Music Seminar II (3). Introduces students to the compositional procedures used by computer music composers. Prerequisites: MUC 6305, MUC 6306, MUC 6405. Corequisite: MUC 5406.

MUC 5XXX Computer Music Seminar III (3). Introduces students to the research technologies for making interactive sound projects including installations and exhibits. Prerequisites: MUC 6305, MUC 6306, MUC 6405, MUC 5406.

MUE 2440C String Techniques (1). Class instruction of string instruments; tuning and care of instruments; teaching techniques, fingerings, bowings; violin, viola, cello and double bass.

MUE 2450C Woodwind Techniques (1). Class instruction of woodwind instruments; tuning and care of instruments. Teaching techniques. Single reed instruments, double reed instruments, and flute. Class one hour, laboratory one hour.

MUE 2460C Brass Techniques (1). Class instruction of brass instruments; tuning and care of instruments.
Teaching techniques. Piston and valve instruments, French horn, and trombone. Class one hour, laboratory one hour.

MUE 2470C Percussion Techniques (1). Class instruction of percussion instruments; sticking techniques; care of instruments; teaching techniques. Drum and mallet instruments. Class one hour, laboratory one hour.

MUE 3340 Elementary School Teaching Methods (3). Development of instructional skills, techniques, and strategies for elementary school classroom music for the music teacher. Laboratory and field work required.

MUE 3921 Choral Conducting Workshop (3). The study of various topics related to choral literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 3922 String Workshop (3). The study of various topics related to string literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 3923 Instrumental Conducting Workshop (3). The study of various topics related to instrumental ensemble literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 3924 Jazz Workshop (3). The study of various topics related to jazz literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5XXX Marching Band Techniques (3). A study of show design and concepts; marching band management and organizational procedures including booster organizations, inventory, handbooks, grading procedures and rehearsal fundamentals. Prerequisites: Permission of Instructor.

MUG 4101 Basic Conducting (1). A basic conducting course to gain fundamental technique and interpretation. A prerequisite for both advanced instrumental and choral conducting.

MUG 4202 Choral Conducting (1). With a background in basic theory, and having performed in ensembles, the student will develop techniques of group conducting including madrigal, glee, choir, etc. A survey of choral literature will be included. Prerequisite: MUG 4101.

MUG 4302 Instrumental Conducting (1). With a background in basic theory, and having performed in ensembles, the student will develop a knowledge of baton technique, score reading, and interpretation. Prerequisite: MUG 4101. Corequisites: Orchestra or wind ensemble or both.

MUG 5105 Advanced Conducting Techniques (1). An extension of form and analysis, with interpretation both in instrumental and choral conducting. Twentieth century scoring and symbol interpretation will be studied in depth, with actual conducting experience required.

MUG 5205 Graduate Applied Choral Conducting (2). Advanced study of choral conducting, including gesture, rehearsal techniques, and repertoire. Prerequisite: Graduate standing and permission of the instructor.

MUG 5307 Graduate Applied Wind Conducting (2). Advanced study of wind conducting, including gesture, rehearsal techniques, and repertoire. Prerequisite: Graduate standing and permission of the instructor.

MUG 5935 Conducting Seminar (1). An examination of the principle issues of conducting, emphasizing score reading and study, rehearsal, interpretation, and contemporary techniques. Prerequisite: Graduate standing and/or permission of the instructor.

MUH 1011 Music Appreciation (3). Lives and creations of great composers in various periods of history. A multimedia course.

MUH 1018 Introduction to Jazz Studies (2). An introductory study of jazz music and musicianship. Required of all students who have been accepted into the Commercial/Jazz Studies program.

MUH 1560 African American Music (3). Examines the historical influence and development of African American music from its African roots to its dominance in the American popular culture.

MUH 2116 Evolution of Jazz (3). A history course that surveys jazz styles from mid-19th century to the present. A sociological and musical look at jazz, the personalities and their experience.


MUH 3052 Music of the World (3). Survey of folk, popular and classical musical traditions from around the world. Examination of musical style and social context with film and performance demonstrations.

MUH 3060 Latino Music in the United States (3). Survey of Latin American musical tradition brought through immigration. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations.

MUH 3061 Music of Mexico and Central America (3). A survey of folk, popular and classical musical traditions in the region. Examination of musical style and social context in lecture-
MUH 3062 Music of the Caribbean (3). Survey of folk, popular and classical musical traditions and their ongoing connection with Caribbean populations in the U.S. Class includes film and performance demonstrations.

MUH 3073, 5075 Women in Music (3). Introduces students to women musicians including performers, composers, and researchers in all genres.

MUH 3211 Music History Survey I (3). A survey of music from antiquity to 1750. Lectures on historical styles will be supplemented with slides, recordings, and musical analysis. Prerequisite: MUT 2226 & MUT 2116 or permission of the instructor.

MUH 3212 Music History Survey II (3). A survey of music from 1750 to the present. Lectures on historical styles will be supplemented with slides, recordings, and musical analysis. Prerequisite: MUT 2226 & MUT 2116, or permission of the instructor.

MUH 3371 Twentieth Century Music: Exploration (3). An exploration of music since 1900. Lectures on style plus demonstrations will be supplemented with recordings and analysis. Prerequisites: MUH 3212, MUT 2117 and MUT 2227 or Permission of the instructor.

MUH 3541 Music of Latin America: Folklore and Beyond (3). An overview of the orchestral, chamber, solo, vocal, and electronic music from Latin America written in the 20th century and its relationship to the folk music of the region.

MUH 3801 Jazz History (2). An in-depth study of jazz music from its inception to the present day. Specifically designed for music majors, in particular Jazz Studies students. Prerequisites: MUT 1112, MUT 1222.

MUH 4680 Music History Seminar I (2). Emphasizes both historical and theoretical analysis. Scholarly work under faculty direction, develops written skills and research methods. Written project required. Prerequisite: MUH 3211, MUH 3212, and permission of the instructor.

MUH 4681 Music History Seminar II (2). Emphasizes both historical and theoretical analysis. Scholarly work under faculty direction, develops written skills and research methods.

MUH 4682 Music History Seminar III (2). Emphasizes both historical and theoretical analysis. Scholarly work under faculty direction, develops written skills and research methods. Written project required. Prerequisite: MUH 4680 or permission of the instructor.

MUH 4683 Music History Seminar IV (2). Emphasizes both historical and theoretical analysis. Scholarly work under faculty direction, develops written skills and research methods. Written project required. Prerequisite: MUH 4681.


MUH 5057 Music of the World (3). Survey of folk, popular and classical musical traditions from around the world. Examination of musical style and social context with film and performance demonstrations.

MUH 5065 Latino Music in the United States (3). Survey of Latin American musical traditions brought through immigration. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations.

MUH 5066 Music of Mexico and Central America (3). A survey of folk, popular and classical musical traditions in the region. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations.


MUH 5375 Twentieth Century Music: ‘New Dimensions’ (3). A technical study of music since 1900. Lectures on style plus demonstrations and practical application will be supplemented with recordings and analysis.

MUH 5546 Music of the Americas (3). An exploration of the Folk, popular, and art music of Latin America.

MUH 5815 Jazz History: The Innovators (3). The work of four artists whose innovations have profoundly defined the jazz idiom from its beginning through the present day. Duke Ellington, Charlie Parker, Miles Davis, and John Coltrane.

MUH 5XXX Music Bibliography (1). Library research methods and materials; documentation of research results in bibliographic style. Develops critical thinking and evaluative skills regarding sources of information, print and online. Prerequisite: Graduate standing at the School of Music.

MUL 4400 Keyboard Literature (3). Study of solo works for the keyboard from historical beginnings to the present. Performance practices and stylistic analysis will be emphasized, with illustrations of representative works. Prerequisites: MUH 3211, MUH 3212.

MUL 4490 Survey of Organ Literature (3). Survey of organ literature, history, performance practice and organ design. Includes historic sound recordings. Prerequisites: Permission of Instructor.

MUL 4500 Symphonic Literature (3). Survey of symphonic literature from the 17th century to present day. Analysis and illustrations of representative works. Prerequisites: MUH 3211, and MUH 3212.


MUL 4630 Symphonic/Chamber Vocal Literature (1). Corequisites with MUL 4500 Symphonic Literature. A practicum surveys Symphonic & Chamber vocal music from 17th Century to present day. Includes selection of personal repertory and ensemble performance.
MUL 4662 History and Literature of Opera (3). Chronological survey of opera literature from the 17th century to present day. Analysis and performance of representative works. Prerequisites: MUH 3211, and MUL 3212.

MUL 5405 Keyboard Literature (3). Survey of keyboard literature from antiquity through the twentieth century. Emphasis on the evolving role of the keyboard in music history.

MUL 5456 Wind Instrument Literature (3). The history and development of Wind Instrument Literature from ca. 1650 to the present day. Music appropriate for all levels of instruction from middle school through college level is included. Prerequisite: Advanced/graduate standing.

MUL 5495 Survey of Organ Literature (3). Survey of organ literature, history, performance practice and organ design. Includes historic sound recordings and in-class performance. Prerequisites: Permission of Instructor.

MUL 5607 Vocal Literature I (2). A survey of solo vocal literature from the 17th century to the late 18th century. Emphasis will be placed on a discussion of ornamentation and performance-practice and comparisons of editions.

MUL 5645 Choral Literature (3). A survey of sacred and secular choral literature from the Middle Ages to the present. Emphasis on stylistic analysis and performance practice for each style period. Includes score study, aural analysis of recorded performances and in-class performances. Prerequisite: Permission of the instructor.

MUL SXXX Vocal Literature II (2). The German Lied and its poetry. Emphasis will be placed on a study of the poets and their poetry, important facts of the composers' lives and times and other musical and cultural developments.

MUL SXXX Vocal Literature III (2). The French Melodie and its poetry. Emphasis will be placed on a study of the poets and their poetry, their styles and schools, the composers' lives and times and other musical and cultural developments.

MUL SXXX Vocal Literature IV (2). Twentieth-century art song. Emphasis will be placed on the rise of the nationalist schools, the development of atonality and other modern schools of thought.

MUM 1401 Music Calligraphy (3). The correct procedures for music penmanship, the notation of notes and chords for music parts and scores.

MUM 3601 Audio Techniques I (3). Basic sound engineering, including the basic workings of P.A. equipment and the interplay between the various components.

MUM 3602 Audio Techniques II (3). Studio recording techniques, microphone placement, taping and mixing.

MUM 4301 Business of Music (3). Principles and practices of modern publishing techniques; copyright laws; wholesale and retail distribution of music. Performance rights; agreements and relations between producers directors, performers, writers, personnel managers, and booking agents. Prerequisite: Permission of the instructor.

MUM 4302 Business of Music II (3). Continuation of principles and practices of modern publishing techniques; copyright laws; wholesale and retail distribution of music. Performance rights; agreements and relations between producers directors, directors, performers, writers, personnel managers, booking agents. Prerequisite: MUM 4301.

MUM 4940 Music Internship (VAR). Practical experience utilizing music theory, composition, and history in the commercial music industry. The precise nature of the work will be determined in consultation with an advisor. Prerequisite: MUM 4302.

MUM 5705 Advanced Business of Music (3). Topics include strategic planning, employee development, and decision making. Also includes a study of publishing, collection agencies, creative unions, and contracts with composers and producers. Prerequisite: MUM 4301 and permission of graduate advisor.

MUM 5715 Performing Arts Production I (2). Focus on the various aspects of performing arts production. Students attend performances of every possible genre of performing arts and critique the production and the venue. Prerequisite: Permission of graduate advisor.

MUM 5725 Live Music Operations I (2). How promoters and producers project a profit margin and the ability to oversee a profit; considering overhead, scheduling, accommodations, concessions, sound and light. Prerequisite: Permission of the graduate advisor.

MUM 5726 Live Music Operations II (3). Continuation of MUM 5725, Live Music Operations I. Emphasis on promoters', producers', and managers' ability to project a profit margin. An on-campus production is required as the final project. Prerequisite: MUM 5725 and permission of the graduate advisor.

MUM 5795 Music Production Laboratory I (1). Students are assigned to work in the production of 10-15 individual concert productions. The productions are varied and provide the students the opportunity to put in practice work learned in the classroom. Prerequisite: Permission of the graduate advisor.

MUM 5796 Music Production Laboratory II (1). A continuation of Music Production Lab I. Students are assigned to work in the production of 10-15 individual concert productions. Prerequisite: MUM 5795 and permission of the graduate advisor.

MUM 5797 Music Production Laboratory III (1). A continuation of Music Production Lab II. Students are assigned to work in the production of 10-15 individual concert productions. Prerequisite: MUM 5796 and permission of the graduate advisor.

MUM 5905 Performance Arts Internship (9). Interns assist and/or observe in all job functions and duties at an entertainment venue. Areas include: production management; design services; technical production; talent booking and casting; and creative show development. Prerequisite: Permission of graduate advisor.

MUN 1100, 4103, 5105 Golden Panther Band (1). A study and performance of pop, jazz, and rock musical selections for the instrumental medium. Students will demonstrate what they have learned by performing and through individualized playing examinations. Prerequisite: Permission of the instructor.

MUN 1140, 4143, 5145 Symphonic Wind Ensemble (1). Readings and performances of wind ensemble music from the 18th century to the present. Open to wind and percussion instrumentalists. Prerequisite: Permission of conductor.
MUN 1210, 4213, 5215 Orchestra (1). An instrumental ensemble performing works from the symphonic repertory. Prerequisites: Previous experience and permission of conductor.

MUN 1310, 3313, 5315 Concert Choir (1). A choral ensemble performing music written and arranged for mixed voices. Prerequisite: Permission of the instructor.

MUN 1340, 3343, 5345 Sunblazer Singers (1). A small ensemble of selected mixed voices performing a repertoire in the modern popular idiom. Prerequisite: Permission of conductor.

MUN 1380, 3383, 4380, 5385 Master Chorale (1). A chorus performing a repertoire primarily from great choral works. Prerequisite: Permission of conductor.

MUN 1430, 3433, 5435 University Brass Choir (1). A study and performance of literature written for the brass medium (trumpet, horn, trombone, euphonium, and tuba) from the pre-baroque, baroque, classical, romantic and contemporary periods. May be repeated. Prerequisite: Permission of the instructor.

MUN 1460, 3463, 5465 Chamber Music (1). Small ensemble in the performing of chamber music literature. Prerequisite: Permission of conductor.

MUN 1481, 2482, 3484, 4486 Jazz Guitar Ensemble (1). An ensemble of five or more electric guitars performing arrangements, accompanied by bass and drums. Emphasis placed on sight reading, styles, phrasing, and improvisation. Prerequisite: Permission of conductor.

MUN 1710, 3713, 5715 Studio Jazz Ensemble (1). An ensemble to provide creative professional-level experience in the contemporary popular idiom. Prerequisite: Permission of conductor.

MUN 1790 Latin Jazz Ensemble (1). An ensemble to provide creative professional-level experience in the salsa/Latin jazz idiom. Prerequisite: Permission of the instructor.

MUN 2320, 4323, 5325 Women's Chorus (1). A choral ensemble performing music written or arranged for women's voices. Prerequisite: Permission of the instructor.

MUN 2330, 4333, 5335 Men's Chorus (1). A choral ensemble performing music written or arranged for men's voices. Prerequisite: Permission of the instructor.

MUN 2440, 4443, 5445 Percussion Ensemble (1). A study and performance of music literature characteristic of the percussion ensemble. Prerequisite: Permission of the instructor.

MUN 2450, 4453, 5455 Piano Ensemble (1). The presentation and performance of music literature characteristic of piano and pianos in ensemble.

MUN 2480, 4483, 5485 Guitar Ensemble (1). The presentation and performance of music literature characteristic of the Guitar Ensemble. Prerequisite: Permission of conductor.

MUN 2490, 4493, 5495 New Music Ensemble (1). A chamber group of varying instrumentation and size performing art music from the 20th century with emphasis on music from the past 20 years. Explores electronics, multimedia works, etc. Prerequisite: Permission of the instructor.

MUN 2491, 4494, 5496 Latin American Music Ensemble (1). Study and performance of one or more folk and/or popular musical styles from Latin America.

MUN 2510, 4513, 5515 Accompanying (1). Accompanying instrumental and vocal students in studio and recital situations.

MUN 2711, 4714, 5716 Jazz Combo Class (1). Harmonic practice, formal procedures, rhythmic and improvisational practices of jazz performance in the small group. Prerequisites: Permission of conductor.

MUN 4784, 5785 Jazz Ensemble Rehearsal Techniques (1). An ensemble that provides its members a creative approach to jazz ensemble rehearsal techniques, literature, improvisation and related materials. Prerequisite: Permission of the instructor.

MUN 5010, 4502, 5505 Opera Workshop (1). The presentation and performance of music literature indigenous to the opera stage. Prerequisite: Permission of director.

MUN 2001 Music Theater Workshop—Voice (2). Introduction to musical comedy performance; integration of dramatic, musical and movement components studied through work on selected scenes and songs. Course is open only to vocal students. Corequisites: TPP 3250.

MUN 3603 Elements of Stage Production (2). Prerequisites: MUN 1003, 1004, 2003. Aspects of technical theatre will be examined such as stage design and lighting, costumes and make-up, stage direction, prop construction, prompting, and Opera Theatre administration.

MUN 4503 Opera Theatre I (3). Prerequisites: MUN 1201, 1202, 1203, 1204, 1205. Prerequisites: Permission of the instructor.

MUN 4504 Opera Theatre II (3). Prerequisites: MUN 1201, 1202, 1203, 1204, 1205. Continuation of Opera Theatre I. Prerequisites: Permission of the instructor.

MUS 1010 MUS 3040 Recital Attendance (0). Students attend concerts and recitals as a corequisite to applied music. Required of music majors each semester.

MUS 2211 English Diction (1). Develop the skills in the proper pronunciation of the English language as used in opera, oratorio and art song literature. Corequisites: All applied MVV.

MUS 2221 French Diction (1). Develop the skills in the proper pronunciation of the French language as used in opera, oratorio and art song literature. Corequisites: All applied MVV.

MUS 2221 German Diction (1). Develop the skills in the proper pronunciation of the German language as used in opera, oratorio and art song literature. Corequisites: All applied MVV.

MUS 2241 Italian Diction (1). Develop the skills in the proper pronunciation of the Italian language as used in opera, oratorio and art song literature. Corequisites: All applied MVV.

MUS 3905, MUS 5905 Directed Study (VAR). Designed to provide areas of exploration and specialization beyond the basic selected study programs, such as electronic music, religious music literature, sound...
techniques, etc. Prerequisite: Permission of the instructor.

MUS 3910, MUS 4910, MUS 5910 Research (VAR). Research composition or performance projects, under the guidance and direction of the music faculty. (May be repeated). Prerequisite: Permission of the instructor.

MUS 4949 Cooperative Education in Performing Arts (VAR). A student majoring in Performing Arts may spend several semesters fully employed in industry or government in a capacity relating to the major.

MUS 5345 MIDI Technology (2). Introduction to MIDI technology including sequencing, notation, patch editing and a variety of other applications. Prerequisite: Graduate standing.

MUS 5512 Sound Reinforcement (2). Exploration of live music on location, dealing with commonly encountered acoustical problems and how to overcome them. Prerequisite: Permission of the graduate advisor.

MUS 5655 Expanding Artistic Expression (2). Focuses on expanding the horizons of the artistic vision of the student. Accomplished through a series of projects. Prerequisite: Permission of the graduate advisor.

MUS 5906 Thesis/Recital (1-6). For students working on a thesis or recital for MM in Music. To be completed under the supervision of a faculty member. Prerequisite: Graduate student.

MUS 5971 Thesis (1-6). Research and/or performances towards completion of master's thesis work. Prerequisite: Permission of graduate area advisor.

MUT 1001 Fundamentals of Music (3). A beginning music theory course in the basic elements of music rhythms, meter notation, key signatures, scales, intervals, and triads.

MUT 1111 Music Theory I (3). This course is designed to promote and develop comprehensive musicianship in all disciplines of the musical art, analysis, composition, performance, and listening. Corequisites: MUT 1221.

MUT 1112 Music Theory II (3). This course is designed to promote and develop comprehensive musicianship in all disciplines of the musical art, analysis, composition, performance, and listening. The second semester is a continuation of Theory I. Prerequisite: MUT 1111, Corequisites: 1222.

MUT 1221 Sightsinging I (1). Development of Basic Musicianship through aural perception, sight-singing, and ear training exercises. Corequisites: MUT 1111.

MUT 1222 Sightsinging II (1). Development of Basic Musicianship through aural perception, sight-singing and ear training exercises. The second semester is a continuation of Sightsinging I. Prerequisite: MUT 1111 Corequisites: MUT 1112.

MUT 2116 Music Theory III (3). Continuation of Freshman Theory. It seeks to promote and further develop comprehensive musicianship in all disciplines of the musical art, analysis, composition, performance, and listening. Prerequisite: MUT 1112. Corequisites: MUT 2226.

MUT 2117 Music Theory IV (3). This course further develops those skills acquired in sophomore Theory I. Prerequisite: MUT 2116. Corequisites: MUT 2227.


MUT 2227 Sightsinging IV (1). Continuation of the Development of Basic Musicianship through aural perception, sight-singing, and ear training exercises. Prerequisites: MUT 2226, MUT 2116. Corequisites: MUT 2117.

MUT 2641 Jazz Improvisation I (2). A beginning course in Jazz improvisation that teaches fundamental aspects, chord structures and extensions, chord scales, melodic patterns, and tunes. Course will involve both theory and practical application. A concert will be held at conclusion of the term. Prerequisite: Permission of the instructor.

MUT 2642 Jazz Improvisation II (2). A follow-up course that both reinforces and extends all materials learned in Jazz Improvisation I. Course stresses more complex chord structures, scales, and tunes. A concert will be held at conclusion of the term. Prerequisite: MUT 2641.

MUT 3401 Counterpoint (3). A study of linear writing through species counterpoint. Two and three-part instrumental and vocal counterpoint of the 18th century: Canon, inversions, fugues. Particular emphasis will be placed on formal analysis. Prerequisite: MUT 2117, 2227.

MUT 3611 Form and Analysis (3). Study and analysis from the smaller forms of musical composition to multimovement forms. Prerequisite: MUT 2117, MUT 2227.

MUT 4141 Comprehensive Music Systems (3). An introduction to the applied techniques of recent comprehensive theoretical approaches to musical analysis. Prerequisite: MUT 3611 or permission of the instructor.

MUT 4311 Orchestration (2-3). With a background of basic theory, the student will explore the techniques of writing and arranging for instruments in performing organizations. Prerequisite: MUT 2117 and MUT 2227.

MUT 4312 Advanced Orchestration (3). A follow-up course to Orchestration that teaches students advanced techniques in scoring for orchestral instruments as utilized by composers of western art music from classical to present times. Prerequisite: MUT 4311 or permission of the instructor.

MUT 4353 Jazz Arranging (2). This course teaches the fundamental aspects of jazz arranging: instrumentation, transposition, section and ensemble writing, chord voicing, counterpoint, and form and analysis. The performance of an original arrangement is required as a final project. Prerequisite: MUT 2641.

MUT 4628 Atonal Analysis (3). A continuation of Music Theory IV, this course introduces students to the basic concepts and procedures for set-theoretic analysis of atonal and serial techniques used in 20th century music. Prerequisite: MUT 2117, MUT 2227, or permission of the instructor.

MUT 4643 Jazz Improvisation III (2). A continuation of Jazz Improvisation II, this course teaches chromatic chords, advanced scales and progressions, patterns, repertoire. Individual and ensemble performance is required as a final project. Prerequisite: MUT 2642.

MUT 4644 Jazz Improvisation IV (2). A continuation of the Jazz Improv I, II, and III track. Further study and analysis of contemporary jazz
compositions and their harmonic implications as applied to the craft of improvisation. Prerequisite: Jazz Improvisation I, II, and III.

MUT 4663 Jazz Styles and Analysis I (2). An extensive study of the significant styles and performers in jazz history from its origins to the present. Includes instruction in layered listening, various analyses and transcribing. Prerequisites: Jazz theory or permission of the instructor.

MUT 4664 Jazz Styles and Analysis II (2). An extensive study of the significant styles and performers in jazz history from its origins to the present. Includes instruction in layered listening, various analyses and transcribing. Continuation of Jazz Styles and Analysis I. Prerequisites: MUT 4663 or permission of the instructor.

MUT 5051 Graduate Theory Survey (1-2). Analytical, theoretical and aural skills required for successful graduate studies in music. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5152 Comprehensive Musical Systems (3). Examination of various comprehensive theoretical systems utilized in the analysis of music. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5316 Advanced Orchestration (3). Examination of orchestral techniques utilized by composers from the Baroque era through current times. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5355 Advanced Jazz Arranging and Composition (3). Scores and recordings of various sized jazz ensembles are studied for technique and style. Student's compositions and arrangements are performed. Topics include: forms, voicing techniques, instrumentation-live performance vs. recording session. Prerequisite: MUT 4353; MUT 4663; MUT 4664.

MUT 5381 Arranging (3). A course in practical arranging for the public school teacher, including choral, band, and popular arranging. Prerequisites: MUT 2117 and MUT 2227.

MUT 5411 Modal Counterpoint (3). Develop skills necessary to write in the Renaissance style and to analyze the masterworks of Palestrina, Lassus, Victoria, and others. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5486 Advanced Jazz Rehearsal Techniques (2). Study and practical application of complete preparation, programming, and rehearsing of small and large jazz ensembles. Students study scores and recordings of various jazz styles and rehearse school's ensembles. Prerequisite: MUN 4784; MUT 4643; MUT 4663.

MUT 5585 Musical Styles Through Strict Composition (3). This course is designed to develop basic compositional skills for writing works in all forms. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5627 Schenkerian Analysis (3). Advanced studies in Schenkerian analysis of tonal music. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5628 Atonal Analysis (3). Advanced studies in set theory and serial techniques of twentieth-century music. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5629 Analytical Techniques (3). Examination and practice of various techniques utilized in the analysis of art music from the common practice period through the 20th century. Prerequisite: Placement exam or permission of the instructor.

MUT 5930 Special Topics (3). Examination of composers, compositional schools, or other areas of specialization and/or interest to the theory/composition faculty. Prerequisite: Graduate standing in the School of Music or permission of the instructor.

MUT 5646 Advanced Jazz Techniques I (2). A comprehensive, theoretical study of topics related to jazz performance. Includes the nature of improvisation, advanced jazz harmony, theory of jazz improvisation, transcribing and analyzing solos of jazz masters. Prerequisite: MUT 4643.

MUT 5647 Advanced Jazz Techniques II (2). A continuing study of topics related to jazz performance. Includes analyzing solos of jazz masters, development of repertoire, style, and aesthetic concepts. Prerequisite: Advanced Jazz Techniques I.

MUT 5746 Jazz Pedagogy (2). Materials, techniques, and philosophies related to teaching jazz. Includes preparation of courses, course outline and syllabi, lesson plans, lectures. Texts and other resources such as videos, recordings, periodicals, are examined. Prerequisite: MUT 4663 and MUT 5355.

MVB 1211, 2221, 3231, 4241, 5251 Secondary Applied Trumpet (1). Individual instruction in applied music on trumpet as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 1212, 2222, 3232, 4242, 5252 Secondary Applied French Horn (1). Individual instruction in applied music on French horn as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 1213, 2223, 3233, 4243, 5253 Secondary Applied Trombone (1). Individual instruction in applied music on trombone as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 1214, 2224, 3234, 4244, 5254 Secondary Applied Baritone Horn (1). Individual instruction in applied music on baritone horn as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 1215, 2225, 3235, 4245, 5255 Secondary Applied Tuba (1). Individual instruction in applied music on tuba as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 1311, 2321, 3331, 4341, 5351 Principal Applied Trumpet (1-2). Individual instruction in applied music on trumpet as a principal instrument. Music majors only.

MVB 1312, 2322, 3332, 4342, 5352 Principal Applied French Horn (1-2). Individual instruction in applied music on French horn as a principal instrument. Music majors only.

MVB 1313, 2323, 3333, 4343, 5353 Principal Applied Trombone (1-2). Individual instruction in applied music on trombone as a principal instrument. Music majors only.

MVB 1314, 2324, 3334, 4344, 5354 Principal Applied Baritone Horn (1-2). Individual instruction in applied music on baritone horn as a principal instrument. Music majors only.

MVB 1315, 2325, 3335, 4345, 5355 Applied Tuba (1-2). Individual
prerequisite: Permission of the instructor.

MVJ 1213, 2223, 3233, 4243, 5253. Secondary Jazz Guitar (1). Individual instruction in applied jazz music on guitar. Prerequisite: Preceding course in sequence or permission of the instructor.

MVJ 1214, 2224, 3234, 4244, 5254. Secondary Jazz Electric Bass (1). Individual instruction in applied jazz music on electric bass. Prerequisite: Preceding course in sequence or permission of the instructor.

MVJ 1215, 2225, 3235, 4245, 5255. Secondary Jazz Flute (1). Individual instruction in applied jazz music on flute. Prerequisite: Preceding course in sequence or permission of the instructor.

MVJ 1216, 2226, 3236, 4246, 5256. Secondary Jazz Saxophone (1). Individual instruction in applied jazz music on saxophone. Prerequisite: Preceding course in sequence or permission of the instructor.

MVJ 1217, 2227, 3237, 4247, 5257. Secondary Jazz Trumpet (1). Individual instruction in applied jazz music on trumpet. Prerequisite: Preceding course in sequence or permission of the instructor.

MVJ 1218, 2228, 3238, 4248, 5258. Secondary Jazz Trombone (1). Individual instruction in applied jazz music on trombone. Prerequisite: Preceding course in sequence or permission of the instructor.

MVJ 1219, 2229, 3239, 4249, 5259. Secondary Jazz Percussion (1). Individual instruction in applied jazz music on percussion. Prerequisite: Preceding course in sequence or permission of the instructor.

MVJ 1310 Principal Applied Jazz Piano (1-2). Individual instruction in applied music on piano as a principal level. Prerequisite: Music majors only.

MVJ 1312 Principal Applied Latin Jazz Percussion (1-2). Individual instruction in applied music on Latin jazz percussion as a principal instrument. Prerequisite: Music majors only.

MVJ 1313, 2323, 3333, 4343, 5353. Principal Jazz Guitar (2). Individual instruction in applied jazz music on guitar. Prerequisite: Preceding course in sequence or permission of the instructor.

MVJ 1314, 2324, 3344, 4344, 5354. Principal Jazz Electric Bass (2). Individual instruction in applied jazz music on electronic bass. Prerequisite: Preceding course in sequence or permission of the instructor.
Prerequisite: Graduate standing or permission of the instructor. Prerequisite: Graduate standing or permission of the instructor.

MVK 5350 Principle Applied Jazz: Keyboard (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVK 5355 Principle Applied Jazz: Flute (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVK 5356 Principle Applied Jazz: Saxophone (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVK 5357 Principle Applied Jazz: Trumpet (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVK 5358 Principle Applied Jazz: Trombone (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVK 5359 Principle Applied Jazz: Percussion (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVK 5453 Major Applied Jazz Guitar (2) Individual instruction on major instrument, focusing on the jazz idiom. An in-depth study of overall instrumental technique, eminent styles, and other performance practices that are particularly relevant to jazz and commercial performance. Prerequisite: Music Majors Only

MVK 5454 Major Applied Jazz Electric Bass (2) Individual instruction on major instrument, focusing on the jazz idiom. An in-depth study of overall instrumental technique, eminent styles, and other performance practices that are particularly relevant to jazz and commercial performance. Prerequisite: Music Majors Only

MVK 5550 Keyboard Elective Bass (2) Individual instruction on major instrument, focusing on the jazz idiom. An in-depth study of overall instrumental technique, eminent styles, and other performance practices that are particularly relevant to jazz and commercial performance. Prerequisite: Music Majors Only

MVK 6111 Class Piano I (1). A course designed to teach piano skills and competencies to non-piano majors. This is a four-semester sequence for music majors. This course includes: keyboard familiarization, finger exercises and techniques, transposing, and easy literature. Prerequisite: None. Music majors only.

MVK 6112 Class Piano II (1). A continuation of Class Piano I, MVK 1111. Prerequisite: MVK 1111. Music majors only.

MVK 1211, 2221, 3231, 4241, 5251 Secondary Applied Piano I (1). Individual instruction in applied music on piano as a secondary instrument. Prerequisite: Permission of the instructor.

MVK 1213, 2223, 3233, 4243, 5253 Secondary Applied Organ I (1). Individual instruction in applied music on organ as a secondary instrument. Prerequisite: Permission of the instructor.

MVK 1311, 2321, 3331, 4341, 5351 Principal Applied Piano I (1-2). Individual instruction in applied music on piano as a principal instrument. Music majors only.

MVK 1313, 2323, 3333, 4343, 5353 Principal Applied Organ I (1-2). Individual instruction in applied music on organ as a principal instrument. Music majors only.

MVK 1411, 2421, 3431, 4441, 5451 Major Applied Piano I (1-2). Individual instruction in applied music on piano as a major instrument. Music majors only.

MVK 1413, 2423, 3433, 4443, 5453 Major Applied Organ I (1-2). Individual instruction in applied music on organ as a major instrument. Music majors only.

MVK 2121 Class Piano III (1). A continuation of Class Piano II. The course includes continued work in finger technique, scales and fingering, transposing, simple accompaniments to folk songs, sight reading cadences, and simple literature. Prerequisite: MVK 1112. Music majors only.

MVK 2122 Class Piano IV (1). A continuation of Class Piano III. Prerequisite: MVK 2121. Music majors only.

MVK 3130 Class Piano V (1). Further development of elementary keyboard techniques and musicianship: scales, harmonization, arpeggios, transposition, improvisation, sightreading, and simple literature. Prerequisite: MVK 2122 or by placement exam.

MVK 3131 Class Piano VI (1). A continuation of MVK 3130. Prerequisite: MVK 3130 or by placement exam.

MVK 3970 Junior Recital Keyboard (1). All music performance majors must present, during their junior year, at least one half of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.

MVK 4141 Class Piano VII (1). Further development of elementary keyboard techniques and musicianship: scales, harmonization, arpeggios, transposition, improvisation, sightreading, and simple literature. Prerequisite: MVK 3131 or by placement exam.

MVK 4142 Class Piano VIII (1). A continuation of MVK 4141. Prerequisite: MVK 4141 or by placement exam.

MVK 4640 Piano Pedagogy (2). A survey of current teaching methods and techniques in piano pedagogy. Supervised teaching provides hands-on experience.

MVK 4971 Senior Recital Keyboard (1). All music majors must present, before graduation, at least one half (full recital) performance major of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.

MVK 5651 Piano Pedagogy (2). Survey of current piano teaching methods.

MVP 1211, 2221, 3231, 4241, 5251 Secondary Applied Percussion (1). Individual instruction in applied music on percussion as a secondary
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instrument. Prerequisite: Permission of the instructor.

MVP 1311, 2321, 3331, 4341, 5351
Principal Applied Percussion (1-2).
Individual instruction in applied music on percussion as a principal instrument. Music majors only.

MVP 1411, 2421, 3431, 4441, 5451
Major Applied Percussion (1-2).
Individual instruction in applied music on percussion as a major instrument. Music majors only.

MVP 3970 Junior Recital - Percussion (1). All music performance majors must present, during their junior year, at least one half of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.

MVP 4971 Senior Recital - Percussion (1). All music majors must present, before graduation, at least one half (full recital performance major) of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.

MVS 1116 Guitar Skills (1). Emphasis on music reading and elementary techniques. Prerequisite: Permission of the instructor.

MVS 1211, 2221, 3231, 4241, 5251
Secondary Applied Violin (1).
Individual instruction in applied music on violin as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 1212, 2222, 3232, 4242, 5252
Secondary Applied Viola (1).
Individual instruction in applied music on viola as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 1213, 2223, 3233, 4243, 5253
Secondary Applied Cello (1).
Individual instruction in applied music on cello as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 1214, 2224, 3234, 4244, 5254
Secondary Applied Double Bass (1).
Individual instruction in applied music on double bass as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 1215, 2225, 3235, 4245, 5255
Secondary Applied Harp (1).
Individual instruction in applied music on harp as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 1216, 2226, 3236, 4246, 5256
Secondary Applied Guitar (1).
Individual instruction in applied music on guitar as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 1311, 2321, 3331, 4341, 5351
Principal Applied Violin (1-2).
Individual instruction in applied music on violin as a principal instrument. Music majors only.

MVS 1312, 2322, 3332, 4342, 5352
Principal Applied Viola (1-2).
Individual instruction in applied music on viola as a principal instrument. Music majors only.

MVS 1313, 2323, 3333, 4343, 5353
Principal Applied Cello (1-2).
Individual instruction in applied music on cello as a principal instrument. Music majors only.

MVS 1314, 2324, 3334, 4344, 5354
Principal Applied Double Bass (1-2).
Individual instruction in applied music on double bass as a principal instrument. Music majors only.

MVS 1315, 2325, 3335, 4345, 5355
Principal Applied Harp (1-2).
Individual instruction in applied music on harp as a principal instrument. Music majors only.

MVS 1316, 2326, 3336, 4346, 5356
Principal Applied Guitar (1-2).
Individual instruction in applied music on guitar as a principal instrument. Music majors only.

MVS 1411, 2421, 3431, 4441, 5451
Major Applied Violin (1-2).
Individual instruction in applied music on violin as a major instrument. Music majors only.

MVS 1412, 2422, 3432, 4442, 5452
Major Applied Viola (1-2).
Individual instruction in applied music on viola as a major instrument. Music majors only.

MVS 1413, 2423, 3433, 4443, 5453
Major Applied Cello (1-2).
Individual instruction in applied music on cello as a major instrument. Music majors only.

MVS 1414, 2424, 3434, 4444, 5454
Major Applied Double Bass (1-2).
Individual instruction in applied music on double bass as a major instrument. Music majors only.

MVS 1415, 2425, 3435, 4445, 5455
Major Applied Harp (1-2).
Individual instruction in applied music on harp as a major instrument. Music majors only.

MVS 1416, 2426, 3436, 4446, 5456
Major Applied Guitar (1-2).
Individual instruction in applied music on guitar as a major instrument. Music majors only.

MVS 2226 Intermediate Guitar Skills (1). Emphasis on techniques and styles such as calypso, folk, blues, classical, and jazz. Open to all FIU students. Prerequisite: MVS 1116.

MVS 3970 Junior Recital - String (1). All music performance majors must present, during their junior year, at least one half of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.

MVS 4971 Senior Recital - String (1). All music majors must present, before graduation, at least one half (full recital performance major) of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.

MVV 1111 Voice Class (1). Class instruction on voice designed to help the student in developing performance skills and increased musical knowledge. Prerequisite: Permission of the instructor.

MVV 1211, 2221, 3231, 4241, 5251
Secondary Voice (1). Individual instruction in applied music on voice as a secondary instrument. Prerequisite: Permission of the instructor.

MVV 1311, 2321, 3331, 4341, 5351
Principal Applied Voice (1-2).
Individual instruction in applied music on voice as a principal instrument. Music majors only.

MVV 1411, 2421, 3431, 4441, 5451
Major Applied Voice (1-2).
Individual instruction in applied music on voice as a major instrument. Music majors only.

MVV 2121 Intermediate Voice Class (1). Emphasis on sight-singing, tonal production, interpretation, and other vocal exercises. Particular attention is paid to vocal and acting improvisation. Prerequisite: MVV 1111.

MVV 3630 Vocal Pedagogy (1). Research into various philosophies of vocal pedagogy with emphasis on the science of acoustics, anatomy, terminology, psychological factors which apply to the art of singing.

MVV 3970 Junior Recital - Voice (1). All music performance majors must present, during their junior year, at least one half of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.
MVV 4551 Opera History Practicum (2). A performance course corequisite with History of Opera: MUL 4662 with emphasis on historical development and differentiation of operatic styles through characterization and musical interpretation. Includes ensemble experience.

MVV 4971 Senior Recital - Voice (1). All music majors must present, before graduation, at least one half (full recital performance major) of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.


MVV 5652 Graduate Vocal Pedagogy II (2). Practical application of the principles of vocal technique in the studio. Emphasis will be placed on the psychological factors which apply to singing and the teaching of singing. Prerequisite: Graduate Vocal Pedagogy I.

MVV 5XXX Graduate Vocal Pedagogy II (2). An introduction to the history and development of vocal pedagogy for the graduate voice major. Emphasis will be placed on a study of the anatomy and acoustics of the human voice.

MVW 1211, 2221, 3231, 4241, 5251 Secondary Applied Flute (1). Individual instruction in applied music on flute as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 1212, 2222, 3232, 4242, 5252 Secondary Applied Oboe (1). Individual instruction in applied music on oboe as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 1213, 2223, 3233, 4243, 5253 Secondary Applied Clarinet (1). Individual instruction in applied music on clarinet as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 1214, 2224, 3234, 4244, 5254 Secondary Applied Bassoon (1). Individual instruction in applied music on bassoon as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 1215, 2225, 3235, 4245, 5255 Secondary Applied Saxophone (1). Individual instruction in applied music on saxophone as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 1311, 2321, 3331, 4341, 5351 Principal Applied Flute (1-2). Individual instruction in applied music on flute as a principal instrument. Music majors only.

MVW 1312, 2322, 3332, 4342, 5352 Principal Applied Oboe (1-2). Individual instruction in applied music on oboe as a principal instrument. Music majors only.

MVW 1313, 2323, 3333, 4343, 5353 Principal Applied Clarinet (1-2). Individual instruction in applied music on clarinet as a principal instrument. Music majors only.

MVW 1314, 2324, 3334, 4344, 5354 Principal Applied Bassoon (1-2). Individual instruction in applied music on bassoon as a principal instrument. Music majors only.

MVW 1315, 2325, 3335, 4345, 5355 Principal Applied Saxophone (1-2). Individual instruction in applied music on saxophone as a principal instrument. Music majors only.

MVW 1411, 2421, 3431, 4441, 5451 Major Applied Flute (1-2). Individual instruction in applied music on flute as a major instrument. Music majors only.

MVW 1412, 2422, 3432, 4442, 5452 Major Applied Oboe (1-2). Individual instruction in applied music on oboe as a major instrument. Music majors only.

MVW 1413, 2423, 3433, 4443, 5453 Major Applied Clarinet (1-2). Individual instruction in applied music on clarinet as a major instrument. Music majors only.

MVW 1414, 2424, 3434, 4444, 5454 Major Applied Bassoon (1-2). Individual instruction in applied music on bassoon as a major instrument. Music majors only.

MVW 1415, 2425, 3435, 4445, 5455 Major Applied Saxophone (1-2). Individual instruction in applied music on saxophone as a major instrument. Music majors only.

MVW 3970 Junior Recital - Woodwind (1). All music performance majors must present, during their junior year, at least one half of a public recital, and pass an oral examination on the music programmed. See areas of emphasis for specific requirements.
Philosophy

Paul Draper, Professor and Chairperson
Michelle Beer, Associate Professor
Bong Kil Chung, Professor
Bruce Hauptli, Professor
Kenneth Henley, Professor
George Kovacs, Professor
Kenneth Rogerson, Professor
Paul Warren, Associate Professor

Bachelor of Arts in Philosophy

Degree Program Hours: 120

Common Prerequisites

No specific courses required; all students are encouraged to complete the Associate in Arts degree.

Philosophy encompasses a broad range of topics and methods of inquiry: Socratic questioning of the extent and nature of human knowledge, probing the rational basis of moral and political thought, confrontation with fundamental questions of value and meaning, analysis of basic concepts underlying theoretical and practical thought, reflection on the human existential situation, and exploring the structure of reasoning itself. The great philosophers are studied both for historical understanding and contemporary significance.

Philosophy majors may choose one of three tracks. The General Track is designed to serve students with a broad interest in philosophy. The Professional Track is designed for students considering philosophy as a professional discipline. It is especially appropriate for those considering graduate work in philosophy and those with an interest in a thorough and systematic study of the full range of philosophical thought. The Specialized Track is designed for students who are interested in philosophical reflection on a specific discipline or area such as law, religion, or psychology. It is especially appropriate for pre-law students and for dual majors who are interested in the relationship between philosophy and their other major discipline.

Degree Requirements

The following requirements apply to all three tracks. (i) any course taken to fulfill a requirement for the major may not be taken with the “pass/fail” option and must be passed with a grade of "C" or better, (ii) no more than 6 (six) hours of Independent Study may be used to fulfill major requirements, (iii) at most, one of PHI 2100 (Introduction to Logic) or PHI 2103 (Critical Thinking), or their equivalents, may be used to fulfill major requirements, and at most six other hours of lower division philosophy courses may be counted toward the degree, (iv) PHI 2011 (Philosophical Analysis) and introduction to philosophy courses taken at other institutions may not be used to fulfill major requirements, and (v) in addition to fulfilling the requirements of the major, the College of Arts and Sciences has a number of requirements which are listed in the University's Catalog at the beginning of the Arts and Sciences section. The Philosophy Department allows a maximum of 15 hours of philosophy transfer credit for a major (3 hours for a minor) subject to the following restrictions: at most one of PHI 2100 (Introduction to Logic) or PHI 2103 (Critical Thinking), or their equivalents may be used to fulfill major requirements, and be counted toward the degree, moreover, PHI 2011 (Philosophical Analysis) and introduction to philosophy courses taken at other institutions may not be used to fulfill major requirements. Such transfer credit can only be awarded by a philosophy advisor and students who wish to apply for it are advised to discuss their course of studies with an advisor early in their career at FIU.

The General Track: (33 Semester Hours Required)

The General Track is designed to serve students with a broad interest in philosophy. One three-hour Logic course is required, selected from PHI 2100 or PHI 2103 (at the most one of these two courses may be used to fulfill major requirements), or PHI 4130 or PHI 4161. The remaining 30 hours may include any philosophy courses (except that only one of PHI 2100 or PHI 2103 may count toward the major). Students are strongly encouraged to discuss their course selections with their advisor.

The Professional Track: (33 Semester Hours Required)

The Professional Track is designed for students considering philosophy as a professional discipline. It is especially appropriate for those considering graduate work in philosophy and those with an interest in a thorough and systematic study of the full range of philosophical thought. While a foreign language is not required for the major, students considering graduate school should seriously consider sufficient course work in German, French, Latin, or Greek so that they achieve fluency in the language. Receiving a 'C' or better in 33 semester hours of upper division philosophy courses distributed as follows will fulfill the requirements for this track:

- Logic/Probability\(^1\) 3
- Epistemology/Metaphysics 6
- Value Theory 6
- History of Philosophy\(^2\) 9
- Non-Western Philosophy 3
- Other Philosophy Courses 3
- Philosophy Seminar 3

(see department for list of courses which satisfy these requirements)

\(^1\)PHI 2100 does not fulfill the Logic/Probability requirement for this track, however it may be included as a Philosophy elective.

\(^2\)Must include 3 hours in the area of Ancient Philosophy

The Specialized Track: (33 Semester Hours Required)

The Specialized Track is designed for students who are interested in philosophical reflection on a specific discipline or area such as law, religion, or psychology. It is especially appropriate for pre-law students and for dual majors who are interested in the relationship between philosophy and their other major discipline. An approved Individualized Plan of Study will meet the requirements for this track. Such plans are designed by the Philosophy advisor in consultation with the student so that they can be tailored to the student’s specific interests and goals. Students pursuing the Specialized Track must secure prior written approval of their course selections from their advisor. The proposed course selections must present a clear, focused, and coherent plan of study. The Philosophy Program Brochure (available in the Department on either campus) includes several models of such plans of study, including Pre-Law Studies, Western Philosophy and its Historical Context, Social and Political Philosophy, Philosophy and Religious Thought, Philosophy and Difference, Philosophy and Psychology, and Philosophy and the Arts. Each such plan must include 33 semester hours, and the courses taken in accord with the plan must be passed with a grade of 'C' or better. One three-hour Logic course is required, selected from PHI 2100 or PHI 2103 (at most one of these two
courses may be used to fulfill major requirements), or PHI 4130 or PHI 4161. With the prior written approval of the Philosophy advisor, up to nine semester hours from other programs may be counted toward the 33 hour major (only six hours credited toward the major requirements of another major program may be counted toward the 33 hour philosophy major).

The Philosophy Minor
A student majoring in another academic discipline can earn an academic minor in Philosophy by taking 15 hours in philosophy (PHH, PHI, PHM, and PHP prefixes) and earning a "C" or better. Only three hours may be earned in lower division (1000 and 2000 level) courses.

Course Descriptions
Definition of Prefixes
GRE-Ancient Greek; PHH-Philosophy, History of; PHI-Philosophy; PHM-Philosophy of Man and Society; PHP-Philosophers and Schools.

GRE 3050 Introduction to Ancient Greek (3). Introduces the Greek language of the New Testament, and other works of the ancient period to enhance the understanding of translated texts. A portion of the Gospel of John is studied.

PHH 3042 Latin American Philosophy (3). This course will examine the development of Latin American thought, with particular attention to the 19th and 20th centuries. It will consider the traditions and initiatives of prominent Latin American philosophers in the light of problems such as personal and cultural identity.

PHH 3100 Ancient Philosophy (3). The basic concerns and teachings of representative philosophers and schools of thought, particularly in the Greek and Roman cultural settings, and linkages to their past and future are emphasized in this course.

PHH 3200 Medieval Philosophy (3). The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the Middle Ages, and linkages to their past and future are emphasized in this course.

PHH 3401 Sixteenth and Seventeenth Century Philosophy (3). The basic concerns and teachings of representative European Continental philosophers of the 16th and 17th centuries (esp. Descartes, Pascal, Leibniz, and Spinoza) are emphasized in this course.

PHH 3402 British Empiricism (3). The basic concerns and teachings of representative British Empiricists of the 17th & 18th centuries (esp. Locke, Berkeley, and Hume) are emphasized in this course.

PHH 3420 Early Modern Philosophy (3). The basic concerns and teachings of representative philosophers and schools of thought in the period from the Renaissance to Kant and the linkages to their past and future are emphasized in this course.

PHH 3440 Late Modern Philosophy (3). The basic concerns and teachings of representative philosophers and schools of thought in the period from Kant to Nietzsche and the linkages to their past and future are emphasized in this course.

PHH 3602 Twentieth Century British Philosophy (3). Examines the development of 20th century British philosophy, with special attention to the justification for its aims, methods, and central concerns (e.g. knowledge, appearance and reality, memory, and the value of philosophy).

PHH 3700 American Philosophy (3). This course will examine the development of American philosophical thought, with particular attention to the 19th and 20th centuries. It will consider the traditions and initiatives of the prominent American philosophers, in the light of problems such as the relationship between theory and practice.

PHH 3810 Philosophy of Buddhism (3). Examines the central philosophy of Buddhism dealing with: 1) the question of reality and appearance, 2) the theories of causation, 3) the relation of these views to Buddhist soteriology (realism, idealism, dialectics, Hwei-yen).

PHH 3840 Indian Philosophy (3). Metaphysical, epistemological and ethical theories within such major Indian philosophical systems as philosophical Buddhism, Gains, Samkhya dualism, and Vedanta transcendentalism are examined.

PHH 4600 Twentieth Century Philosophy (3). The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the present century, and linkages to past and emerging generations are emphasized in this course.

PHH 4930 A Major Philosopher (3). This course will examine in detail the works of a major figure in the history of philosophy. Prerequisite: Permission of the instructor. Course may be repeated on a different philosopher. (S)

PHI 2011 Philosophical Analysis (3). This course introduces both the tools of philosophical thinking and some of their applications to fundamental topics such as knowledge, value, meaning, and human society.

PHI 2100 Introduction to Logic (3). This introductory course in logical thinking and argumentation will treat both practical and theoretical approaches to understanding human communications and solving problems. Students will be introduced to inductive and deductive logic, fallacies, and the role of logic in scientific explanation and popular expression.

PHI 2101 Philosophical Logic (3). This course studies the propositional and predicate calculus and such topics as necessary truth, entailment, the ontological implications of logic, and the justification of deduction and induction.

PHI 2103 Critical Thinking (3). A course in practical reasoning designed to sharpen abilities at analyzing, evaluating, and constructing arguments.

PHI 2600 Introduction to Ethics (3). Explores philosophical accounts of morality, including the rational justification of commitment to the moral life, and theories of duty, obligation, and virtue.

PHI 3073 African Philosophy (3). An analysis of the metaphysical, epistemic, ethical, and political thoughts constituting the African world views and cultural settings.

PHI 3300 Epistemology (3). The viewpoints of various philosophers and schools of thought regarding types of knowledge, certitude, and creativity are the main emphases of this introductory course. The meaning of truth and truthfulness is analyzed from both the classical and the contemporary perspectives.

PHI 3320 Philosophy of Mind (3). An inquiry into the concept of mind and
subsidiary concepts such as sensation, perception, desire, emotion, intention, volition, imagination, and intellect. The course will address the problem of the relation of mind and body and such topics as the concept of a person, the nature of intentional action, and the nature of consciousness.

PHI 3400 Philosophy of Science (3). The philosophic background of scientific method will be examined. Attention will be given to the philosophical consequences of conceptual change in the sciences. Such topics as the growth and unity of science, explanation and prediction, and the role of science in society will be explored.

PHI 3420 Philosophy of Social Science (3). An inquiry into philosophical questions raised by the social sciences. Topics include forms of social explanation, the nature of rationality, and the status of values in social science.

PHI 3500 Metaphysics (3). This introductory course examines basic metaphysical questions regarding the nature of reality, as well as the meaning of these questions for the relationship of persons with their world. Fundamental texts from classical and contemporary philosophers will be considered.

PHI 3601 Ethics (3). What is intrinsically good? What ought one to do? Are moral claims justified? Competing views of major philosophers are considered.

PHI 3640 Environmental Ethics (3). Examines philosophical and ethical perspectives on human interaction with the natural world.

PHI 3638 Contemporary Ethical Issues (3). After a review of basic questions regarding ethics, this course considers special ethical problems in contemporary society from the perspective of one or more philosophers or systems of ethics. Topics will be selected and announced in advance.

PHI 3700 Philosophy of Religion (3). This course investigates whether or not religious beliefs can be rationally justified. Such topics as the nature of God, the problem of evil, religious experience, and the relationship of faith to reason will be explored.

PHI 3762 Eastern Philosophical and Religious Thought (3). This introductory course examines the development of philosophical and religious thought in the East from ancient to modern times. Hinduism, Buddhism, Confucianism, Taoism, and other major viewpoints will be considered, in themselves and in comparison with Western forms of thought.

PHI 3800 Philosophy of Art (3). An introduction to problems in Philosophy of Art, with emphasis on those problems which are especially relevant to appreciation and criticism in the arts. Typical problems include the relation between form and content, truth and falsity in art, the nature of emotion in art and of the aesthetic response, as well as the nature of art itself. This course will include a study of selections from the writings of major thinkers and the consideration of those works of art which are relevant to this study.

PHI 4130 Symbolic Logic (3). This course provides an introduction to symbolic logic. Emphasis is upon both the formal techniques of analysis of argument and upon the theoretical aspects of formal logic.

PHI 4161 Philosophy and Probability (3). An introduction to the philosophical applications of elementary probability theory. Topics include mathematical probability, rational decision making, the foundations of science, and Pascal’s wager.

PHI 4220 Philosophy of Language (3). The subject matter concerns the relations between language, thought, and the world. Topics to be studied include reference, meaning, speech acts, and propositional attitudes. Also to be considered are the implications of claims here for issues in other areas of philosophy.

PHI 4222 Philosophy of Dialogue (3). This course examines the meaning, the foundations, the limitations of dialogue, and the dialogical structure of expression and human relationships based on the philosophy of Martin Buber. It includes a philosophical analysis of the dialogical principle and the application of its insights to the problems of human living and knowing.

PHI 4321 Topics in the Philosophy of Mind (3). This course examines selected issues in the philosophy of mind. Topics include the nature and value of the passions, self and self-deception, theory of action, etc. May be repeated. Prerequisite: Instructor’s permission or PHI 3320.

PHI 4370 Topics in Epistemology (3) Study of a focused topics in epistemology (such as: a priori knowledge and justification; certainty; or skepticism). This course may be repeated.

PHI 4541 Philosophy of Time (3). An analysis of the nature of time. Topics include the “passage” of time, the asymmetry between past and future, Zeno’s paradoxes, and philosophical implications of the special theory of relativity.

PHI 4633 Biomedical Ethics (3). After examining the foundations of ethics, this course will consider the human and ethical dimensions of current issues in the life sciences, such as the meaning of human living and suffering, ethics of genetic control, death and dying, personal responsibility in the medical and counseling professions.

PHI 4764 Religious Experience (3). An introduction to philosophical thought about religious experiences. After a brief survey of the major types of religious experiences, issues about their nature and cognitive status are examined.

PHI 4882 Philosophy in Literature (3). Philosophical implications of selected works and the impact of philosophical concepts such as the self, death, identity, alienation, responsibility, freedom, and the absurd.

PHI 4910 Independent Research (1-6). Topics will be selected to meet the academic needs of the individual student. Prerequisite: Permission of the instructor.

PHI 4930 Special Topics (3). In-depth study of topics of special interest in philosophy.

PHI 4935 Philosophy Seminar (3). This seminar is designed for majors and other qualified students approved by the Department, and will be guided by one or more faculty members. Topic will be selected and announced in advance. The number of participants will be limited.

PHI 5934 Special Topics (3). Topics will be selected to meet the academic needs of groups of students.

PHIM 3040 Philosophical Anthropology (3). This course attempts to
interpret philosophically scientific perspectives concerning the nature of man and the human condition. It seeks to elucidate the basic qualities that make man what he is and distinguish him from other beings.

PHM 3200 Social and Political Philosophy (3). The nature of society and the state, authority of society and the state over the individual, political obligation, legitimacy of government, and idea of social contract are considered.

PHM 3400 Philosophy of Law (3). After an analysis of the nature of law and judicial reasoning in the light of fundamental alternative interpretations, basic topics of legal philosophy will be considered, such as freedom and rights, responsibility and punishment, rule of law and civil disobedience, legality and justice.

PHM 3500 Philosophy of History (3). After exploring the definitions, dimensions and interrelations of philosophy and history, students will examine major philosophies of history. The social responsibility of the historical narrative and the philosophical assumptions of historiographies will be discussed.

PHM 4020 Love and Sexuality (3). This course analyzes the nature and meaning of love and sexuality, and studies the basic problems in human sexual living, such as love and the man-woman relationship, the formation of sexual union, and attitudes toward love and sexuality in contemporary society.

PHM 4050 Philosophy of Death (3). This course analyzes the meaning of death and man's attitude towards death and the dying. It examines how philosophy can share in the new confrontation between man and his death, and shows the ways philosophical thinking contributes to the discovery of an authentic attitude towards the phenomenon of death as part of human living.

PHM 4123 Philosophy and Feminism (3). A conceptual analysis of alternative feminist views. Topics include the goals of the feminist movement, sexist theories on women's nature, sexual stereotypes and androgyne, the nature of oppression, sexism, racism and homophobia.

PHM 4360 Topics in Political Philosophy (3). Examines a selected topic in political philosophy, such as: justice, democracy, liberty, or an important thinker. May be repeated.

Prerequisites: PHM 3200 or permission of the instructor.

PHM 4430 Topics in Philosophy of Law (3). Examines a focused topic in philosophy of law, such as: punishment, legislation of morality, the rule of law, or an important thinker. May be repeated.

PHP 3840 Chinese and Japanese Philosophy (3). Metaphysical and ethical theories of the three main philosophical systems of China, namely, Classical and neo-Con-fucianism, Taoism, and Chinese Buddhism are examined. For Japanese philosophy, Shintoism is included.

PHP 4510 Marxism (3). This course examines the philosophic insights of Marx and the main trends (anthropological, social, existential) in contemporary Marxism. It includes an analysis of the Marxist interpretation of alienation, work, and human authenticity.

PHP 4782 Phenomenology (3). This course analyzes the method, the basic philosophical insights and the applications of 20th century phenomenology. It includes the phenomenological analysis of knowing as well as basic questions regarding the nature of reality together with the study of fundamental texts from Husserl, Heidegger, and Merleau-Ponty.

PHP 4784 Analytic Philosophy (3). This course examines the 20th century Anglo-American tradition of approaching philosophic problems by the methods of linguistic analysis. It will include study of techniques of linguistic analysis and an evaluation of their adequacy in dealing with meaning and truth, the mind-body problem, and free will.

PHP 4786 Existentialism (3). This course examines the origin, basic philosophical insights, and influence of the mainstreams of modern existentialism. It includes the study of fundamental texts of Kierkegaard, Nietzsche, Sartre, Jaspers, and Camus.

PHP 4789 Contemporary French Philosophy (3). Main trends (hermeneutics, postmodernism, deconstruction) in twentieth century French philosophy, with emphasis on seminal thinkers, e.g., Levinas, Derrida, Ricoeur, Foucault, Irigaray.
Physics

Stephan L. Mintz, Professor and Chairperson
Werner Boeglin, Associate Professor
Richard A. Bone, Professor
Yesim Darici, Associate Professor
Rudolf Fiebig, Professor
Bernard Gerstman, Professor
Kenneth Hardy, Professor
Laird H. Kramer, Assistant Professor
Pete C. Markowitz, Associate Professor
Oren Maxwell, Professor
Brian A. Raue, Assistant Professor
Joerg Reinhold, Assistant Professor
Misak Sargsian, Assistant Professor
John W. Sheldon, Professor
Caroline E. Simpson, Associate Professor
Walter Van Hamme, Professor
Xuewen Wang, Associate Professor
James R. Webb, Associate Professor
Jiandi Zhang, Assistant Professor
Yifu Zhu, Associate Professor

Bachelor of Science

Degree Program Hours: 120

This program prepares students for careers as professional physicists in industry, government, or graduate study in physics, engineering, or material science. It also prepares students for teaching careers. Students interested in teacher certification should contact the College of Education.

Lower Division Preparation

Required Courses

Common Prerequisites
CHM 1045 General Chemistry I
CHM 1045L General Chemistry Lab I
CHM 1046 General Chemistry II
CHM 1046L General Chemistry Lab II
MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Calculus III
PHY 2048 Physics with Calculus I
PHY 2048L Physics with Calculus Lab I
PHY 2049 Physics with Calculus II
PHY 2049L Physics with Calculus Lab II

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Upper Division Program (60)

PHY 3123 PHY 3124 Modern Physics 6
PHY 3123L PHY 3124L Modern Physics Labs 2
PHY 3503 Thermodynamics 3
PHY 4221 PHY 4222 Mechanics 6
PHY 4232 PHY 4324
• Electromagnetism 6
PHY 4604. PHY 4605 Quantum Mechanics 6
PHY 4810L Senior Physics Lab 3
PHY 4905 PHY 4906, PHY 4907 Independent Study 3
Approved electives in experimental or theoretical physics 6
MAC 2313 Multivariable Calculus 3
MAP 2302 Differential Equations 3
Electives (Physics or Non-Physics) 13

Minor in Physics

This program is designed for students who desire additional capabilities in physics beyond the basic sequence. This program is especially recommended for chemistry, mathematics, and engineering/technology majors.

PHY 2048, PHY 2049 Physics with Calculus 8
PHY 2048L PHY 2049L Physics with Calculus Lab 2
PHY 3123, PHY 3124 Modern Physics 6
PHY 3123L PHY 3124L Modern Physics Labs 2
Additional approved courses 3

Cooperative Education

Students seeking the baccalaureate degree in physics may also take part in the Cooperative Education Program conducted in conjunction with Career Planning & Placement. The student spends several semesters fully employed in an industrial or governmental physics laboratory. For further information consult the Department of Physics or Career Planning & Placement.

Course Descriptions

Definition of Prefixes

AST-Astronomy; MET-Meteorology
PHS-Physics/Specialized; PHY-Physics; PHZ-Physics; PSC-Physical Sciences; ENU-Nuclear Engineering.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

AST 2037 Intelligent Life in the Universe (3). Examines the possibility of extraterrestrial life in terms of the probability of the existence of planets in other solar systems, the conditions necessary for life, and means of communication. (F or S)

AST 2100 Solar System Astronomy (3). General principles of Astronomy with emphasis on the structure and evolution of the Solar System, the laws of planetary motion, and the physical aspects of the sun, planets, and interplanetary debris. (F,SS)

AST 2100L Solar System Astronomy Laboratory (1). Laboratory section of AST 2100. Outdoor observing of the moon, planets and indoor exercises including celestial positions and time, the moon’s orbit, planetary motions, comparative planetology. Corequisite: AST 2100. (Lab fees assessed) (F,SS)

AST 2201 Stellar Astronomy (3). General principles of Astronomy with emphasis on the structure and evolution of stars, stellar systems, galaxies and the universe. Topics include stellar birth and death, neutron stars and black holes, galactic distances and the expansion of the universe. (F,SS)

AST 2201L Stellar Astronomy Laboratory (1). Laboratory section of AST 2201. Outdoor observing of stars, constellations, binary and variable stars, star clusters, nebulae and indoor exercises including radiative properties of the stars, spectra, stellar and galactic distances, Hubble’s Law. Corequisite: AST 2201. (Lab fees assessed) (F,SS)

AST 3213 Modern Astrophysics (3). An introduction to the structure of stars and galaxies and the evolution of the universe as a whole. Topics will include atomic spectra, stellar classifications, galactic structure, and cosmology. Prerequisites: PHY 2048, 2049. (F or S)

AST 5215 Stellar Astrophysics (3) Topics in Stellar Astrophysics, in greater detail and depth than similar topics in AST 3213. Emphasis on current stellar structure, evolution models and the underlying observational data. Prerequisites: PHY 3124, PHY 3503, PHY 4324, PHY 4222 or equivalent. (F or S)

AST 5405 Extragalactic Astrophysics (3). Topics in extragalactic astrophysics, in greater detail and depth than similar topics in AST 3213. Emphasis on galactic structure and evolution, quasars and cosmology. Prerequisites: PHY 3124, PHY 3503, PHY 4324, PHY 4222 or equivalent. (F or S)
AST 5507 Celestial Mechanics (3). Principles of classical Newtonian mechanics applied to the motions of planets, satellites, and interplanetary space probes. Prerequisites: PHY 4222 or equivalent. (F or S)

ENU 4101 Introduction to Nuclear Reactors (3). An elementary course in nuclear fission reactor theory and power plant operation. An overview of the relevant nuclear processes and their application to reactor design. Prerequisites: PHY 2048, 2049.

MET 2010 Meteorology and Atmospheric Physics (3). Physics of the Earth's atmosphere and weather including energy and heat transfer, radiation, temperature and pressure changes and the development of storms, atmospheric optical effects, and weather forecasting. Prerequisite: High school algebra. (F, S)

MET 2010L Meteorology and Atmospheric Physics Laboratory (1). Practical weather analysis including fronts, local severe weather, hurricanes, also elementary analyses and interpretation of weather maps, satellite imagery, radar data. Corequisite: PHY 2010. (F, S)

PHS 4303 Nuclear Physics (3). A treatment of the current state of the nuclear theory problem and a discussion of modern experimental methods. Prerequisites: PHY 3123, 3124.

PHY 1020 Understanding the Physical World (3). A course to introduce non-science majors to the basic principles of the physical world with emphasis on understanding common devices, biological and medical applications, natural phenomena and sports. Prerequisite: one year high school or college algebra. (F, S)

PHY 1020L Understanding the Physical World Laboratory (1). Laboratory section of Understanding the Physical World. (F, S)

PHY 2023 Survey of General Physics (3). Units, quantities, Newton's laws, work, momentum, fluids, heat, gas laws, waves, charge and current, electric fields, circuits, light, atomic and nuclear physics. Prerequisites: Algebra, trigonometry (high school). (F, S, S)

PHY 2048, PHY 2049 Physics with Calculus (4,4). Basic physics with calculus sequence. PHY 2048 will cover kinematics, Newton's Laws, conservation laws, gravitation, fluids, sound, and thermodynamics. Prerequisite: MAC 2311 or MAC 2312. PHY 2049 will cover electricity and magnetism, field theory, geometrical and wave optics. (F, S, S)

PHY 2048L, PHY 2049L General Physics Laboratory I, II (1,1). Laboratory sections of PHY 2048, 2049, PHY 2053, 2054. Prerequisites or Corequisites: PHY 2048, PHY 2049, PHY 2053, PHY 2054. (Lab fees assessed) (F, S, S, S)

PHY 2053, PHY 2054 Physics without Calculus (4,4). A general introductory course using a non-calculus approach. PHY 2053 covers kinematics, Newtonian mechanics, properties of fluids, thermodynamics, and wave motion. PHY 2054 covers electricity and magnetism, geometrical and wave optics and the structure of matter. Prerequisites: College algebra, trigonometry, and analytic geometry. (F, S, S, S)

PHY 3123, PHY 3124 Modern Physics I and II (3,3). Recent developments in physics are discussed. Subject matter includes: review of classical physics, special relativity, four-vectors, wave-particle duality, the hydrogen atom, many electron atoms, nuclear instrumentation, nuclear structure, nuclear reactions, elementary particles, introduction to quantum mechanics, and solid state physics. Prerequisite: PHY 2049. (F) (Modern Physics I); (S) (Modern Physics II)

PHY 3123L, PHY 3124L Modern Physics Laboratory I and II (1,1). Laboratory courses to accompany Modern Physics I and II consisting of experiments in atomic and nuclear physics. Pre- or co-requisites: PHY 3123 and PHY 3124. (F) (Modern Physics Lab I); (S) (Modern Physics Lab II)

PHY 3424 Optics (3). General formulation of geometrical optics including matrix techniques, interference phenomena, and the theory of Fraunhofer and Fresnel diffraction are among the topics covered. Prerequisites: PHY 2048, 2049.

PHY 3503 Thermodynamics (3). Fundamental principles of thermodynamics, the first, second, and third laws, free energy, entropy, the chemical potential, phase rule and its applications. Prerequisites: PHY 2048, 2049, CHM 1045, 1046. (F)

PHY 3772 Electronics (3). Solid state theory and the theory of circuits, circuit operation and design in lecture and laboratory sessions. Prerequisites: PHY 2048, 2049.

PHY 3949, PHY 4949 Cooperative Education in Physics (1-3). One semester of full-time supervised work in an outside laboratory taking part in the University Co-Op Program. Limited to students admitted to the Co-Op Program. A written report and supervisor evaluation will be required of each student. (F, S, S, S)

PHY 3XXX Physics of Space Flight (3). Basic physics is used to describe the motions of space craft, with a discussion of various types of propulsion systems, including chemical methods, nuclear systems, electric and photon propulsion. Prerequisite: PHY 2049.

PHY 4221, PHY 4222 Intermediate Classical Mechanics I & II (3,3). Laws of motion, statics of particles and rigid bodies, motion of particles in one, two, and three dimensions, systems of particles, rigid bodies in a plane, central forces. Accelerated reference systems, rigid body in three dimensions, generalized coordinates, Lagrangian and Hamiltonian formulations of mechanics, vibrational systems, and normal coordinates. Prerequisites: MAC 2313, PHY 2048, 2049. (F) (Intermediate Classical Mechanics I); (S) (Intermediate Classical Mechanics II)

PHY 4323, PHY 4324 Intermediate Electromagnetism I and II (3,3). The theory of electromagnetic fields and waves is developed from basic principles. Vector calculus, Coulomb's law, Gauss's Law, electromagnetic potential, dielectrics, solutions to Laplace's and Poisson's equations, magnetic induction, vector potential, magnetic materials, Maxwell's equations, and propagation of waves in space and various media are discussed. Prerequisites: MAC 2313, PHY 2048 and 2049. (F) (Intermediate Electromagnetism I); (S) (Intermediate Electromagnetism II)

PHY 4513 Statistical Thermodynamics (3). Review of the fundamental laws of thermodynamics applied to simple systems. Elementary kinetic theory of gases applied to
diffusion, viscosity, thermal and electrical conductivity. Boltzmann, Fermi-Dirac and Bose-Einstein distribution functions applied in the Boltzmann limit to the calculation of thermodynamic variables. Prerequisites: MAC 2313, PHY 2048, 2049.

PHY 4604 Quantum Mechanics I (3). A comprehensive introduction to quantum mechanics. Wave mechanics applied to standard one dimensional problems and the hydrogen atom. Prerequisites: PHY 3124 or permission of the instructor and MAP 2302, MAC 2313, and PHY 2049. (F)

PHY 4605 Quantum Mechanics II (3). General matrix formalism, angular momentum, symmetries, perturbation theory and variational methods, an introduction to relativistic theory and theory of fields. Prerequisite: PHY 4604. (S)

PHY 4752C Introduction to Scientific Instrumentation (3). The student learns to set up and operate such standard pieces of laboratory apparatus as bridges, amplifiers, oscilloscopes, frequency counters, flowmeters, and thermocouple circuits utilizing chart recorders. A background in general physics is required.

PHY 4810L Senior Physics Lab (3). Advanced laboratory topics are treated. Modern physics laboratory equipment is used and the student is introduced to current laboratory practice. Prerequisites: PHY 2048 and 2049. (S)

PHY 4905, PHY 4906, PHY 4907 Independent Study (3). The student works under the supervision of a faculty member on subject matter of mutual interest. Instructor's permission is required.

PHY 4936, PHY 4937, PHY 4938 Special Topics (VAR). A study of topics of special physics interest.

PHY 5115 Mathematical Physics I (3). Methods of solution for problems in mathematical physics: Variational principles, complex variables, partial differential equations, integral equations, and transforms. Prerequisites: MAC 2313, MAP 2302. (F)

PHY 5116 Mathematical Physics II (3). Additional solution methods in mathematical physics: Perturbation methods, Laplace's and Poisson's Equations, waves, special functions, vector fields, vector waves. Prerequisite: PHY 5115. (S)

PHY 5235 Nonlinear Dynamics and Chaos (3). Introduction to the universal behavior of classical systems described by nonlinear equations. Prerequisites: PHY 4222, MAA 4211. (F or S)

PHY 5240 Advanced Classical Mechanics (3). Advanced formulations of the equations of motion and their applications: the central field problem, rigid body dynamics, oscillations and continuous systems. Prerequisite: PHY 4222. (F)

PHY 5346 Advanced Electromagnetic Theory I (3). Advanced treatment of classical electrodynamics: Electrostatics, Green's function, Laplace's equation, multipole expansion, magnetostatics, Maxwell's equations, waves. Prerequisite: PHY 4324. (F)

PHY 5347 Advanced Electromagnetic Theory II (3). Additional topics in classical electromagnetism: Wave guides, radiating and diffracting systems, Kirchhoff's integral for diffraction, covariant formulation of field equations. Prerequisite: PHY 5346. (S)

PHY 5446 Laser Physics (3). Principles of lasers and laser applications, including atom-field interactions, stimulated emission and dipole oscillators, optical resonators and electromagnetic modes, semi-classical laser theory, and specific laser systems. Prerequisite: PHY 4605. (F or S)

PHY 5667 Nonperturbative Quantum Field Theory (3). Euclidean QFT, renormalization group, local gauge symmetry, lattice regularization, Wilson action, fermion fields, expansion schemes, numerical algorithms, hadron properties, recent developments. Prerequisites: PHY 4605.

PHY 5930 Seminar in Physics (1-3). A series of specialized lectures/seminars on selected topics in Physics/Astro-Physics. Prerequisites: Permission of Department.

PHY 5936 Special Topics Research (1-10). Participation in an original investigation in theoretical or experimental physics/astro-physics under direct faculty supervision. Prerequisite: Permission of the instructor.

PHY 5937, PHY 5938 Seminar in Special Topics (3). Seminar work under the supervision of a faculty member on subject material of mutual interest.

PHY 5940 Physics Graduate Teaching Workshop (1). The teaching of physics laboratories. Includes practice of lab experiments, use and adjustment of lab equipment and explanation of departmental grading policy. Supplemented by outside lectures on university policies. (F)

PHY 5XXX Atomic Particle Interactions and Detection (3). Preparation for research utilizing particle detectors. Covers particle interactions with matter in scintillation, ionization, and semiconductor detectors for charged particles, neutrons, and photons. Prerequisites: PHY 3124 or Permission of Instructor.

PHY 5XXX Intermediate Modern Physics I (3). Prepares advanced undergraduate and beginning graduate students to start research in atomic, molecular, or optical physics. Topics may be adapted to students' research interests. Prerequisites: Permission of Instructor.

PHY 5XXX Intermediate Modern Physics II (3). Continuation of advanced undergraduate and beginning graduate student research preparation in atomic, molecular, optical or nuclear physics. Topics may be adapted to students' research interests. Prerequisite: Intermediate Modern Physics I.

PHY 5XXX The Physics of Music (3). Provides music technology majors a physical understanding of sound, sound generation and reproduction. Concentrates mainly on physical principles and less on calculation. Prerequisite: Permission of Instructor.

PHZ 2102 Problem Solving in Physics I (1). Supplemental course for Physics 2048 that teaches problem solving skills and reinforces concepts learned in the lecture. Corequisite: PHY 2048.

PHZ 2103 Problem Solving in Physics II (1). Supplemental course for Physics 2049 that teaches problem solving skills and reinforces concepts learned in the lecture. Corequisites: PHY 2049.

PHZ 4710 Introduction to Biophysics (3). Physical investigation of biological molecules with special reference to structure and function of protein, biomembranes and visual receptors. Prerequisite: PHY 3124 or CHM 3411.
PHZ 5130 Theoretical Treatment of Experimental Data (3). Statistical analysis of physical processes and statistical tests, with particular emphasis on instrumentation-related problems. Mathematical modeling and computer simulation. Prerequisite: Undergraduate statistics course or equivalent, or permission of the instructor.

PHZ 5156 Computational Physics I (3). Physical systems by means of computer simulation. Monte Carlo, molecular dynamics, percolation, random systems, chaos, criticality, gauge fields. Prerequisite: PHY 5115 and PHY 5116.


PHZ 5234 Atomic and Molecular Collision Phenomena (3). Investigation of atomic and molecular collision phenomena: Kinetic theory, elastic scattering, inelastic scattering, excitation and ionization, heavy particle collisions. Prerequisites: PHY 4605 and PHY 4222. (F or S)

PHZ 5304 Advanced Nuclear Physics (3). Fundamental properties of nuclei, nuclear forces, nuclear models, radioactivity, weak processes and nuclear reactions. Prerequisite: PHY 4604. Corequisite: PHY 4605. (F or S)

PHZ 5405 Solid State Physics (3). Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, crystalline surfaces, and amorphous materials. Prerequisites: PHY 3124 or CHM 3411. (F or S)

PHZ 5505 Low Energy Plasma Physics (3). The investigation of the kinetics of rarefied gases and thermal plasmas: Phase space, random currents, orbit theory, plasma sheaths, radiation, the pinch effect. Prerequisites: PHY 3503, PHY 4324, and PHY 4222.

PHZ 5506 Plasma Physics (3). An introduction to plasma fundamentals, the Boltzmann equation, the hydrodynamic equations, orbit theory, the interaction of electromagnetic waves with plasmas, the pinch effect and instabilities. Prerequisite: PHY 2049.

PHZ 5606 Special Relativity (3). A detailed study of special relativity: Lorentz transformations, relativistic electrodynamics. Prerequisite: PHY 3124.

PHZ 5607 General Relativity (3). General relativity using differential geometry and tensor analysis. Topics include Einstein’s field equations and their solutions, applications and observational tests. Black Holes and cosmology are also discussed. Prerequisite: PHY 4222 and PHY 4605.
Political Science

Nicole Rae, Professor and Chairperson
Astrid Arraras, Assistant Professor
Colton Campbell, Assistant Professor
Virginia Chanley, Assistant Professor
Ronald Cox, Associate Professor
Keith Dougherty, Assistant Professor
Eduardo Gamarra, Professor and Director, Latin American and Caribbean Center
Ivelaw Griffith, Professor and Dean, Honors College
Kevin Hill, Associate Professor and Head Undergraduate Advisor
Antonio Jorge, Professor
Joseph Junpee, Assistant Professor
Jeanne Kates, Instructor
Mary Beth Melchior, Assistant Professor
Dario Moreno, Associate Professor
Paul Mullen, Assistant Professor
Brian Nelson, Associate Professor
Richard Olson, Professor
Timothy Power, Associate Professor, Director of Graduate Studies
Mark Rosenberg, Professor and Provost
Rebecca Salokar, Associate Professor
John Stack, Professor and Director, Institute for Public Policy and Citizenship Studies
Judith H. Stehm, Professor
Christopher Warren, Associate Professor

Bachelor of Arts in Political Science

Degree Program Hours: 120

The major in Political Science provides students the opportunity to acquire a broad education that will equip them to adapt to a wide variety of careers. The program for majors is designed to encourage the analysis of theories, institutions, and processes of political systems in the context provided by the social sciences; to stimulate a grasp of the broad sweep of political science as a discipline; to develop a continuing and responsible interest in political activity and public affairs; to provide the opportunity to acquire a fundamental understanding of political science as a basis for citizenship, a career in government, or professional study and service; and to stimulate the qualified student's interest in graduate study in political science.

The curriculum is designed to expose students to the various areas of Political Science and to allow for some specialization. Students are encouraged to create a blend of courses that fit their interests. You should work with the undergraduate advisor in selecting courses.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including the successful completion or waiver of the CLAST, 60 semester hours, and a minimum 2.0 Grade Point Average, and the university's Foreign Language Requirement.

Curriculum for Political Science Majors

Students should obtain and read the "Political Science Advising Guide" from the department office. A minimum of 30 credits of upper division work (3000 level and above) is required for a major in Political Science, of which 6 credits must be at the 4000 level (excluding independent study and internship credits).

In addition, two 2000 level courses are required for a student to meet both the department's prerequisite requirements for majors as well as the state mandated "Common Prerequisites" (see below). These courses should be taken as early as possible in preparation for upper division work in the major. POS 2042-American Government (or its equivalent) is required of all Political Science majors. This course will also meet one of the two state mandated Common Prerequisites. The second Common Prerequisite can be fulfilled by taking either CPO 2002 Introduction to Comparative Politics, or INR 2002 Dynamics of World Politics (or their equivalents). These requirements can normally be met through course work at the community college level, or can be taken at FIU. Students should be mindful of the further requirement of the College of Arts and Sciences, that a minimum of 48 upper division credits (3000 level and above) is necessary for graduation. Students also need to pass 9 hours in upper division courses outside Political Science, and must satisfy the College of Arts and Sciences Foreign Language Requirement.

No specific upper division courses are required. Rather, courses in Political Science must be distributed so that five courses meet the Breadth requirement and five other courses meet the Political Science Electives requirement, of which two (6 credits) must be at the 4000 level (excluding independent study and internship credits).

The student must earn a grade of 'C' or better in all Political Science courses credited toward the major. A grade of 'C-' will not fulfill the requirements of the major. Students choosing to major in Political Science must officially declare their major by completing applicable forms. See the department secretary for assistance.

Common Prerequisites

Common Prerequisites are those mandated by the state for Political Science majors. In order to conform with both state and departmental requirements, students must take the following:

POS 2042 American Government (or its equivalent)
and one of the following two courses:
CPO 2002 Introduction to Comparative Politics (or its equivalent)
INR 2002 Dynamics of World Politics (or its equivalent)

These courses do not count toward the 30 credits of upper division work required for the major.

Requirements for a Major

I. Breadth Requirement

This is designed to acquaint all majors with the five general fields of Political Science. One three-semester hour course must be taken in each of the following fields, for a total of 15 semester hours.

American Politics (AP)-This Breadth area can be met only by one of the following courses:

POS 3064 Federalism and Intergovernmental Relations 3
POS 3152 Urban Politics 3
POS 3413 The Presidency 3
POS 3424 The Legislative Process 3
POS 3443 Political Parties 3

Judicial Politics (JP)-This Breadth area can be met only by one of the following courses:

POS 3283 The Judicial Process 3
POS 3603 Constitutional Law: Powers 3
POS 3604 Constitutional Law: Limits 3

Comparative Politics (CP)-This Breadth area can be met only by one of the following courses:

CPO 3010 Comparative Politics 3
CPO 3055 Authoritarian Politics 3
CPO 3103 Politics of Western Europe 3
CPO 3204 African Politics 3
CPO 3304 Politics of Latin America 3
CPO 3403 Politics of the Middle East 3
CPO 3502 Politics of the Far East 3
CPO 3643 Russian Politics 3

International Politics (IP)-This Breadth area can be met only by one of the following courses:
INR 3102 American Foreign Policy 3
INR 3203 World Politics 3
INR 3702 Politics of the World Economy 3

Political Theory and Methodology (PT)—This Breadth area can be met only by one of the following courses:
POT 3013 Ancient and Medieval Political Theory 3
POT 3054 Modern Political Theory 3
POT 3064 Contemporary Political Theory 3
POT 3204 American Political Thought 3
POT 3302 Political Ideologies 3

II. Political Science Electives Requirement

Five upper division Political Science courses (3000 level and above), of which two (6 credits) must be at the 4000 level are required (not from POS 4905, POS 4941, or POS 4944), for a total of 15 credits. No more than 6 credits in independent study and/or internship work can be applied toward the major, and these may not be counted toward the 4000-level requirement.

Minor in Political Science
POS 2042 (or its equivalent) is a prerequisite for a minor in Political Science. Beyond the prerequisite, the minor consists of any five upper division (3000 level and above) courses in Political Science, for a total of 15 upper division credits. All courses must be passed with a 'C' or better grade. A grade of 'C-' will not fulfill the requirements of the minor. Neither independent study nor internships will count toward the minor. Students should select specific courses in consultation with their major advisor and a Political Science advisor. Students must apply for a minor by completing a Request for Minor Form and have it signed by their Major and Minor Advisors.

Pre-Law Students
The Department of Political Science recognizes the interests and needs of the undergraduate major who plans to attend law school. The basic skills important to a pre-law student include:

1. how to think logically,
2. how to read intelligently, and
3. how to express oneself clearly.

These skills are developed in a number of disciplines. Beyond these basic skills, the department encourages students to acquire a broad background in political science rather than to select only courses that deal with public law. The department publishes a pre-law handbook that answers general questions for all students and the department’s pre-law advisors will counsel students on specific concerns.

In selecting electives, students should remember that the LSAT and law school require the ability to read with comprehension of concepts and logic and to express oneself with clarity and precision. Whether or not a given student will benefit from a particular elective is a question best answered by the student in close consultation with an advisor. Courses in History, Philosophy, Economics, Sociology, Psychology, Math and English will probably all give the student practice in relevant skills. Breadth of preparation is important. Whether a particular course in logic, writing or another area is the best choice can only be answered on an individual basis.

Public Affairs Internships
The Department provides opportunities for practical work-study experiences in governmental and nongovernmental agencies. Three categories of internships are available to qualified students:

1. Judicial Internships (Prerequisite: POS 3283-Judicial Process or equivalent)
2. Legislative Internships (Prerequisite: POS 3424-Legislative Process or equivalent)
3. Campaign Internships (In election year). (Prerequisite: POS 3443-Political Parties, or POS 4233-Public Opinion and Elections)

Standards for enrollment as an intern student include:

Enrollment is by permission of the instructor only. A student wishing to enroll as a public affairs intern should consult with the appropriate faculty member early in the preceding semester and receive written permission to enroll. A 3.0 GPA is required.

A Political Science major may count a maximum of six credit hours in internships toward his/her major.

All public affairs internships in political science will be on a Pass/Fail basis.

For further information on internships, contact your political science advisor.

Upper Division Transfer Credit
Students will generally receive transfer credit for junior and senior level courses in political science with a grade of 'C' or higher. While a student may transfer up to 30 credits of upper division work, the department will only accept 15 credits towards the Political Science curriculum. All decisions to recognize transfer credit rest with the faculty.

Undergraduate Advising Program
The Department of Political Science has an Undergraduate Advisor available to answer student questions regarding degree requirements, transfer credit, and graduation. All new majors and minors should make an appointment to meet with the Undergraduate Advisor in advance of their enrollment in the program. Prior to registering for their final semester of courses, graduating seniors should also meet with the Undergraduate Advisor for a graduation check to review their records. Appointments for undergraduate and pre-law advising are available through the department secretary. In addition, all Political Science faculty are willing to meet with students to discuss the prospects of graduate studies and career planning.

Course Descriptions

Definition of Prefixes

CPO-Comparative Politics; INR-International Relations; POS-Political Science; POT-Political Theory; PUP-Public Policy; URP-Urban Planning.

Courses that meet the Breadth Requirements for the major are identified by subfield following the course title: (AP) American Politics; (JP) Judicial Politics; (CP) Comparative Politics; (IP) International Politics; and (PT) Political Theory.

CPO 2002 Introduction to Comparative Politics (3). Analysis of major theories of comparative politics including development, state building,
institutions, patterns of political interaction and comparative elites. Focus on Latin America and the Third World.

CPO 3010 Comparative Politics: Theory and Practice (CP) (3). Examines major theories and methods of comparative politics, focusing on divergent political systems (Democracy, Authoritarianism, Totalitarianism). Countries/regions studied vary with instructor.

CPO 3055 Authoritarian Politics (CP) (3). The purpose of this course is to identify the conceptual and empirical characteristics of authoritarian regimes. An ideal typical authoritarian regime will be established, followed by case study analyses of modern authoritarian systems, like those of Brazil, Mexico, and Portugal. The course is designed to analyze the circumstances giving rise to non-totalitarian modern dictatorships, their political dynamics, and their survival capability.

CPO 3103 Politics of Western Europe (CP) (3). Studies of political systems of the major European countries on a comparative basis. Attention is focused on such factors as political party systems, the cabinet form of government, and the politics of the Common Market. Considers the implications of the impact of mass society on these nations. Enables the students to better understand the nations which have supplied many of the theoretical foundations of modern politics.

CPO 3104 Politics of the European Union (3). Traces the development of the governmental forms and structures in the evolution of the European Union and compares them to governmental structures in other regional and global multinational organizations.

CPO 3204 African Politics (CP) (3). Compares the politics of Sub-Saharan Africa, and the Republic of South Africa and addresses questions of economic development, the colonial legacy, and the impact of traditional social patterns.

CPO 3304 Politics of Latin America (CP) (3). This course analyzes the multiple structures, processes, and groups which are relevant to an understanding of Latin American political economy. Of special interest are the political impacts of land and wealth inequality and economic dependency. The dynamics of Latin American politics are considered, with an emphasis on the role of the military and the church. Alternate strategies for modernizing the region are considered.

CPO 3403 Politics of the Middle East (CP) (3). This course will focus on the social, cultural, and political aspects of the Middle East region. Through an understanding and an interweaving of these complex facets, a student should gain a foundation and background for comprehension of the contemporary conflict which pervades this mercurial region.

CPO 3502 Politics of the Far East (3). An intensive examination of the major political institutions of China, Japan, and Korea. A critical analysis of changing aspects of traditional relationships in Far Eastern political culture and major reform movements in contemporary Far Eastern politics. Allows the student to better understand nations whose political development will be an important factor in global development.

CPO 3643 Russian Politics (CP) (3). Examines the political structure and institutions of Russia. Attention is paid to the historical and cultural aspects of the structure and use of power.

CPO 4XXX Constitutional Politics of the Czech Republic: Study Abroad (3). An examination of the development of individual rights in the Czech Republic in a study abroad setting. Particular attention to issues of liberty and equality.

CPO 4XXX Czech Republic in the Global Arena: Study Abroad (3). Examination of the global political environment of the Czech Republic. Special attention to the external factors, internal demands, and the political and economic and social forces that impact foreign policy decisions.

CPO 4XXX Politics of the Czech Republic: Study Abroad (3). An examination of the Czech political system, its history and current constitutional structure. Course is taught by FIU and Czech faculty with significant study abroad component.

CPO 4034 The Politics of Development and Underdevelopment (3). This course is an analysis of the causes of development and underdevelopment in Third and Fourth World countries. It includes an analysis of major theoretical approaches to understanding development problems, as well as an analysis of the roles of major national and non-national actors.

CPO 4053 Political Repression and Human Rights (3). Examination of domestic factors resulting in political repression and violations of human rights. American, European, and South American examples will be used.

CPO 4057 Political Violence and Revolution (3). An examination of major historical instances and modern expressions of political violence; discussion of revolution from a comparative perspective. Attention will focus on the social origin and political determinants of such events.

CPO 4062 Comparative Judicial Politics (3). An examination of the various modes of dispute settlement and rule adjudication cross-culturally. Emphasis is on the similarities and differences of judicial behavior, judicial decision-making, judicial recruitment, and judicial powers in cross-national analysis.

CPO 4072 Comparative Electoral Behavior (3). Public opinion, voting choice, and electoral patterns from a comparative and historical perspective. Attention will focus on West Europe and Latin America. Differences from North American trends and patterns will also be detailed.

CPO 4165 Italian Politics (3). An examination of the political structure and traditions of Italy since WW II. Particular attention is given to the internal development of democracy as a model for other nations. Emphasis on the politics of pluralism.

CPO 4303 Politics of South America (3). A cross-national discussion of the political systems and cultures of the Latin American nations, with special emphasis on the larger countries. Attention is given to the role of the military and to the problem of violence. Designed to give the student an overview of the political life of the nations with whom we share this hemisphere.

CPO 4323 Politics of the Caribbean (3). Studies the political system of the major British, French, Dutch, and Spanish areas in the Caribbean basin. Attention is focused on such factors as political party democracies in a non-industrial setting. The paradoxes between modernity and tradition throughout the developing Caribbean,
and the relationship between politics, economics, and culture are discussed. The student is helped to understand the dynamics of change in an important area of the world and to compare those dynamics with change in his own country.

CPO 4333 Politics of Central America (3). This course analyzes the historical and contemporary political dynamics of the five countries of Central America. Special attention is given to problems of development and modernization within the context of the region’s economic dependence on the United States. Special attention is given to the problem of political restraints on the modernization process and to those regional arrangements which have been created to solve the area’s problems. The student will develop a better understanding of a region which has close ties to the United States.

CPO 4340 Politics of Mexico (3). This course analyzes the political system and the process of the Mexican political system from four perspectives: 1) Mexico’s revolutionary heritage; 2) its formal governmental structure; 3) formal political relations; and 4) the structure and process of Mexican political economy.

CPO 4360 Cuban Politics (3). Examines the course of twentieth-century Cuban politics. The course is subdivided into five parts covering the three periods of relatively stable politics and the two major revolutions.

CPO 4401 The Arab-Israeli Conflict (3). This course provides the student with an introduction to the political roots of the Middle East conflict, and examines the dilemmas of finding a solution by focusing on the domestic and international constraints imposed upon major actors.

CPO 4404 Politics of North Africa (3). An examination of the politics of the Arab-Islamic countries of North Africa. Attention is given to pre-colonial politics and subsequent European penetration as bases for understanding contemporary politics.

CPO 4461 Politics of Eastern Europe (3). An examination of the historical and contemporary political dynamics of the countries of Eastern Europe. Special attention is given to the process of “democratization” and the effort to move towards a liberal-democratic, capitalist order.

CPO 4507 Comparative Political Economics of Asia (3). Introduction to the political economy of East and Southeast Asia. Course is segmented into three parts: overview of Asia Pacific; survey of specific countries; and trends and transformations.

CPO 4541 Politics of China (3). This course introduces students to China’s political history from 1840 and analyzes politics in the People’s Republic of China with special emphasis on political and economic development, socio-economic and political conflict, ideology, and foreign policy.

CPO 4553 Government and Politics of Japan (3). Introduction to Japanese politics. Special attention is given to the Japanese variant of democracy, the capitalist state, and foreign policy.

CPO 4725 Comparative Genocide (3). A comparative analysis of the preconditions and processes associated with major cases of 20th-century genocide, including Armenia, Germany, Cambodia, Bosnia, and Rwanda.

CPO 4741 Comparative Political Economy (3). Examines the theoretical approaches used to assess the relationship between political institutions and private economic interests in advanced, industrial countries and the less developed world.

CPO 4930 Topics in Comparative Politics (3). An intensive examination of a topic in comparative politics. Subject matter varies according to instructor. Topic to be announced in advance.

CPO 4955 Politics of the Czech Republic: Study Abroad (3). Examination of Czech political system, its history and current constitutional structure. Course is taught by FIU and Czech faculty with significant study abroad component.

CPO 4956 Constitutional Politics of the Czech Republic: Study Abroad (3). An examination of the development of individual rights in the Czech Republic in a study abroad setting. Particular attention to issues of liberty and equality.

CPO 4957 Czech Republic in the Global Arena: Study Abroad (3). Examination of the global political environment of the Czech Republic. Special attention to external factors, internal demands and the political, economic and social forces that impact foreign policy decisions.

CPO 5036 Politics of Development (3). This course examines divergent explanations for development and underdevelopment. Of central importance are the concepts and theories which emphasize the political dimensions of development, including theory and concept, processes of development, and actors in the development process.

CPO 5091 Seminar in Comparative Politics (3). A foundation in the development of the field of comparative politics and in the major schools of thought that have molded the perspectives on comparative political analysis.

CPO 5325 Politics of the Caribbean (3). Examines the structural and institutional aspects of the politics of the Caribbean in both domestic and international contexts. Prerequisite: Graduate standing.

CPO 5340 Topics in Comparative Politics (3). A rigorous examination of a topic in comparative politics. Subject matter varies according to instructor. Topic will be announced in advance.

CPO 5936 Seminar in Comparative Political Parties (3). Students read and discuss major works on parties by conservative, liberal, and marxist authors.

INR 2002 Dynamics of World Politics (3). An examination of the political forces which shape the actors, institutions, and processes of world politics. Special attention given to role of transnational forces.

INR 3102 American Foreign Policy (IP) (3). An examination of the legal, administrative, and political structure by which American foreign policies are formulated and implemented. Includes a discussion of the objectives and consequences of United States foreign policy in selected regional, social-economic, and ideological areas. Enables the student to understand the procedures by which foreign policy is made and implemented in the United States.

INR 3203 World Politics (IP) (3). Overview of competing theories and methods used in the study of world politics. Accompanying focus on the changing world system in the post cold war era.
INR 3702 Politics of World Economy (3). The politics of world economy with emphasis on the role played by transnational political/economic institutions.

INR 4084 Ethnicity in World Politics (3). This course examines the political dimensions of ethnic conflict from a comparative perspective. It evaluates the dynamics of ethnic conflict in Western Europe, Africa, Latin America, and the United States, through a series of case studies.

INR 4204 Comparative Foreign Policy (3). This course is an analysis of the development of the foreign policy-making process in the United States, Britain, France, West Germany, and Italy. Particular attention is directed to the domestic and international factors which affect the making of foreign policy.

INR 4244 Latin America in World Politics (3). This course will be primarily concerned with Latin America's role in the world political system. Of special interest will be the impact of the North-South split on Latin America, and in particular Latin America's relationship to the United States. Key issues of international politics concerning Latin America, including the Panama Canal, will be selected for study.

INR 4350 International Environmental Politics (3). Addresses environmental politics from an international perspective. Ecological problems and issues are becoming international, environmental problems are crossing national borders, and public attitudes. Prerequisites: Introduction to International Relations and Introduction to Environmental Science (recommended).

INR 4407 Political Foundations of International Law (3). An examination of the interaction between politics and international law, with particular emphasis on such interaction during the present century. The role of international institutions in the modifying of existing international law concepts and the developing of such concepts is also examined.

INR 4501 Multinational Organizations (3). This course examines contemporary international politics through an analysis of inter-governmental and non-governmental actors. It emphasizes the prominent role played by increasing levels of transnational relations, interdependence, and global dominance in world politics.

INR 4521 Politics of Regional Integration (3). Examines regional economic blocs - European Union, NAFTA and Pacific Rim. Forces influencing regional integration and effects on global trade are studied.

INR 4926 Model United Nations (3). Students participate in a UN simulation. Attention is given to the workings of the UN, negotiating skills, and critical international issues. Prerequisite: Permission of the instructor.

INR 4933 Topics in International Politics (3). An intensive examination of a topic in international politics. Subject matter varies according to the instructor. Topic to be announced in advance.

INR 5007 Seminar in International Politics (3). An advanced graduate course designed to give students a specialized knowledge of the classics in international politics. The course traces the development of international politics from Thucydides to the present.

INR 5087 Ethnicity and the Politics of Development (3). This course examines the conceptual and substantive dimensions of ethnicity in the context of world politics and political development. The course will highlight ethnicity and ethnic groups as critical factors in North-South politics.

INR 5105 American Foreign Policy (3). Compares different perspectives in foreign policy analysis. Provides a comprehensive understanding of major issues in U.S. policy.

INR 5414 Topics in International Law (3). An intensive examination of the political dimensions of international law in the context of rapidly changing global political relations.

INR 5934 Topics in International Politics (3). A rigorous examination in international politics. Subject matter varies according to instructor. Topic to be announced.

INR 5XXX Politics of Globalization (3). Intensive examination of state and global institutions that have shaped the process of economic globalization. Topics include impact on sovereignty, human rights, labor and agenda-setting of large and small nation-states.

POS 2042 American Government (3). Power distribution and policy-making in U.S. Topics include political change; role of majorities; minorities; media, elections in U.S. politics; national institutions; and Florida state and local government.

POS 2690 Law, Politics and Society (3). Introduction to the role of law in American life. Topics include law as a tool for social control, dispute settlement and social change; the tension between rights and community; and the rule of law.

POS 3064 Federalism and Intergovernmental Relations (AP) (3). An introduction to modern theories of federalism, with an emphasis on how federalism has evolved in the United States. Constitutional structures and intergovernmental relations may also be emphasized.

POS 3152 Urban Politics (AP) (3). An examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is placed on how urban problems are identified; and the way proposed solutions are formulated, legitimated, and administered by urban policy-making processes. Includes a discussion of urban political culture. Enables the student to understand major problems confronting communities in urban areas.

POS 3283 The Judicial Process (JP) (3). An introduction to the study of public law. Examines the relationship between politics and judicial structure and process. Emphasizes the judicial system as a particular kind of policy-making system, and evaluates its strengths and weaknesses from a policy-making perspective.

POS 3413 The Presidency (AP) (3). An examination of the various interpretations of the Presidency. Attention is directed to the role of the President in a technocratic society. Enables the student to understand one of the most visible political institutions.

POS 3424 The Legislative Process (AP) (3). Examines the context and process of legislative decision-making, including the impact of elections, groups, bureaucracies, and the norms of legislative behavior. Evaluates legislatures in light of various theories of representation and conflict-management.
POS 3443 Political Parties (AP) (3). Studies the internal structure, political functions, and behavior of modern political parties. Attention is given to the relationships between political parties and various economic, ethnic, and regional interest. Enables the student to understand the problems of expressing and structuring political demands to facilitate or obstruct governmental decision making.

POS 3603 Constitutional Law: Powers (JP) (3). An examination of the basic principles of American government, as defined through constitutional law. Focus will be on the nature of the union, federalism, national government powers, separation of powers, state government powers, and powers of the respective branches of government.

POS 3604 Constitutional Law: Limitations (JP) (3). An examination of the limitations on government as defined by the Supreme Court through constitutional law. Focus will be on the limitations of government with respect to the rights of the individual, of groups, and of the states. Particular attention will be paid to civil rights, civil liberties, the rights of the accused, political rights, and economic liberties.

POS 3703 Methods of Political Analysis (3). An introduction to the principal concepts and techniques of data collection and organization in political science. Includes practical exercise in data collection and organization. Highly recommended for those planning graduate study.

POS 3949 Cooperative Education in Political Science (3). A student majoring in Political Science may spend several semesters fully employed in industry or government in a capacity relating to the major.

POS 4034 Political Change in America (3). Analysis of theories of political change in America and their application to major political movements from the 1960's to the present.

POS 4071 Corporate Power and American Politics (3). An examination of the formal and informal linkages between the private and public sectors and the sets of relationships which govern each. Particular attention is devoted to the exploration of the political role of business and the close but uneasy relationship between private enterprise and democracy.

POS 4073 The Military and the Citizen (3). Examines the U.S. military as a basic governmental institution, its relationship to civilians/citizens, and its post World War II history.

POS 4074 Latino Politics (3). Presents an overview of the role of Hispanics in the U.S. political system. It explores the historical and socio-economic dimensions of Latino politics.

POS 4122 State Government and Politics (3). A study of the political processes, structure, and development of state systems. This course attempts to provide the student with an understanding of the basic structure of state government and political processes.

POS 4152 Conflict and Change in American Cities (3). A study of social conflict in American cities. Emphasis is on how urban problems are identified and proposed solutions are formulated, legitimized and administered by policymaking processes.

POS 4154 Topics in Urban Politics and Policy (3). An intensive examination of a topic in urban politics and policy. Subject matter varies according to instructor. Topic will be announced in advance.

POS 4173 Politics in the American South (3). An examination of the politics of the American South with particular attention to the role of political parties, the Civil Rights movement, and the impact of Reconstruction.

POS 4188 Miami Politics (3). Examines the politics of Miami-Dade County. Topics include functioning of Metro government, theories of political power, politics of ethnicity and class, growth politics, and political corruption.

POS 4205 American Political Culture (3). Examines American political culture and the forces that shape it. Specific focus on competing theories, and the role of political socialization, ideology, the economy, media, and schooling.

POS 4233 Public Opinion and Electoral Behavior (3). An examination of the social and psychological factors shaping public opinion and voting choice. Particular attention will be directed to the nature of trends and patterns in electoral results and systemic elements influencing such patterns.

POS 4284 Judicial Behavior (3). An examination of various approaches, theories, and findings on the behavior of judicial actors, particularly as it relates to judicial decision-making. The focus of the course will be on judges, lawyers, prosecutors, and other relevant actors in the judicial process.

POS 4314 American Ethnic Politics (3). This course examines American ethnic politics from conceptual and substantive perspectives. Special attention is devoted to the theoretical dynamics of ethnicity as well as an intensive investigation of Irish, Italian, Jewish, and Black ethnic politics.

POS 4463 Interest Group Politics (3). An examination of the various types of voluntary associations which seek to influence the political process. Special attention is given to the role of private power in a pluralist system. Enables the student to understand the ambivalent American attitude towards pressure groups and lobbying activities in the legislative and administrative arenas.

POS 4493 Politics of Judicial Administration (3). This course is designed to examine the process of judicial administration, particularly from the political perspective. The politics of selecting judicial personnel, financing, budgeting, disposition of litigation, reorganization, and intergovernmental relations will be included. (JP)

POS 4605 Gender Justice (3). The development of gender law in the U.S. and legal strategies by which courts both initiate and respond to demands for social change. Emphasis on various legal definitions of justice and equality.

POS 4627 Equality and the Constitution (3). An examination of the Supreme Court's interpretations of the Constitution in relation to social and political equality. Questions of equal justice pertaining to race, alienage, gender, sexual orientation, political representation, and economic status are explored.

POS 4713 The Logic of Data Analysis in Political Science (3). An introduction to the major concepts employed in the analysis of political data. Emphasis is on the logic of explanation rather than the techniques of such explanation. This is not a course in statistical method. Highly recommended for those planning graduate study.
POS 4905 Independent Study (3). Designed for advanced students who wish to pursue specialized topics in political science. Arrangements must be made with instructor during the prior semester.

POS 4930 Topics in Public Law (3). An intensive examination of a topic dealing with public law. Subject matter varies according to instructor. Topic will be announced in advance.

POS 4931 Topics in Politics (3). An intensive examination of a topic in politics. Subject matter varies according to instructor. Topic will be announced in advance.

POS 4935 Honors Seminar (3). A rigorous examination of a political topic designed for advanced political science majors. Subject matter varies according to instructor. Topic to be announced in advance.

POS 4941 Legislative Internship (1-20). An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between the student and advisor.

POS 4944 Judicial Internship (1-20). An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between the student and advisor.

POS 4945 Executive Internship (1-12). An opportunity for students to engage in policy or constituent work in a chief executive's setting. Assignment will be individually tailored to the student's interest and background. Prerequisites: POS 3152, POS 3413, or POS 3443 or equivalent.

POS 4949 Cooperative Education in Political Science (3). A student majoring in Political Science may spend one or two semesters fully employed in industry or government in a capacity relating to the major.

POS 5045 Seminar in American Politics (3). The advanced study of U.S. politics. Students read and discuss the major works and theories concerning American politics and government.

POS 5146 Seminar in Urban Politics (3). Examination of processes by which urban areas are governed. Emphasis is on conflicts over structures, power, policy and the politics of ethnicity and class.

POS 5158 Topics in Politics (3). Subject matter varies according to instructor.

POS 5208 Seminar in Political Behavior (3). Analyzes the literature in political behavior. Special emphasis is on voting, socialization, attitudes, partisanship, campaigning, the media, and political participation in the developed democracies. Prerequisite: Seminar in Political Science Methodology.

POS 5326 Seminar in Class Analysis (3). The theoretical and empirical issues associated with class divisions in contemporary societies. Theoretical debates regarding definitional problems of class identity and empirical case studies highlighting class conflict and stratification.

POS 5447 Seminar in U.S. Political Parties (3). Students read and discuss the major works and theories on U.S. Political Parties.

POS 5638 Topics in Public Law (3). A rigorous examination of a topic in public law. Subject matter varies according to instructor. Topic will be announced in advance.

POS 5702 Teaching Political Science (1). Introduces graduate students to the pedagogical and practical aspects of teaching political science. Topics will include selecting books, writing a syllabus, lecturing, running discussion groups, and testing and grading. Covers professional ethics, and student rights and responsibilities.

POS 5706 Methodology (3). This course is an introduction to the principal concepts and techniques of quantitative and non-quantitative methodology in the Social Sciences. It is designed to familiarize the student with the language and format of quantitative and non-quantitative applications in order to permit students to deal effectively with the literature of their field.

POS 5716 Foundations of Political Science (3). Prepares students for the advanced study of politics. Areas of study include history of Political Science as a discipline, comparison of classical and modern sciences of politics and realpolitik, epistemological foundations.

POS 5909 Independent Study (3). Designed for advanced students who wish to pursue specialized topics in political science. Arrangements must be made with instructor during prior semester.

POS 5932 Topics in Urban Politics (3). An extensive examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is on the ways in which urban problems are identified and solutions formulated, legitimized, and administered by urban policy-making processes, including a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas.

POT 2002 Introduction to Political Theory (3). Introduction to various ways of thinking about the political. Includes an examination of explanations offered for political phenomena and an analysis of political prescriptions. Special attention given to assumptions underlying political beliefs.

POT 3013 Ancient and Medieval Political Theory (PT) (3). A study of the major political philosophers of the ancient and medieval periods. Primary emphasis is given to the Greek experience. The nature of political theory as a tradition of discourse is examined.

POT 3054 Modern Political Theory (PT) (3). An analysis of the thought of the great political thinkers since Machiavelli, culminating with the eighteenth century theorists. Basic themes and ideas common to all these political theorists will be discussed in detail. The problem of ‘modernity’ will receive special attention.

POT 3064 Contemporary Political Theory (PT) (3). An overview of the major conceptual frameworks used by political theorists to describe, explain, and evaluate political behavior and processes. Stress is placed on political theory, not only as a basis for inquiry, but also as a base for political action. This course enables the student to develop analytical abilities with which to interpret the political events of his or her time.

POT 3204 American Political Thought (PT) (3). An examination of
American political thought from its 17th century origins to the contemporary period. The continuities and discontinuities in the development of American political ideas since colonial times will receive special attention.

POT 3302 Political Ideologies (PT) (3). An analysis of modern political ideologies since the French Revolution, including liberalism, conservatism, and socialism. Particular emphasis will be given to Marxism. The contemporary link between ideology and totalitarianism will be examined.

POT 4309 Sex, Power and Politics (3). Theories are examined that explain differences between women's and men's power in the political arena. Their internal consistency and "fit" with reality are also explored.

POT 4344 Class, Race and Sports (3). Examines the political structure of organized sports with a concentration on issues of class and race. Theories explore the relationship between owners, players and fans in modern sports.

POT 4930 Topics in Political Theory (3). An intensive examination of a topic in political theory. Subject matter varies according to instructor. Topic will be announced in advance.

POT 4621 Theories of Justice (3). An analysis of major theories of justice from Plato to the present. Emphasis on the implications of theory for U.S. constitutional law, the role of judges, and the nature of the good society.

POT 5007 Seminar in Political Theory (3). An examination of writings from a diverse list of some of the major political theorists in the western tradition from antiquity to the present.

POT 5307 Feminist Political Theory (3). Examines feminist political theory in the second half of the twentieth century with the focus on the work of U.S. scholars.

POT 5934 Topics in Political Theory (3). An intensive examination of selected topics dealing with political theory. Subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her.

PUP 4004 Public Policy: U.S. (3). An intensive examination of the theory and practice of formulating, legitimizing, administering, and evaluating public policy. Includes a discussion of the role of administrators, legislators, courts, interest groups and political parties in their processes. Gives the student an analytical basis for understanding and participating in the making of public policy in a variety of policy areas. Prerequisite: Prior work in American institutions: The Congress, Presidency, or Judicial.

PUP 4203 Environmental Politics (3). Examines US environmental politics in terms of political institutions.

PUP 4323 Women in Polities (3). Examines the role of women in the political system as they act within, and are affected by, politics. Special attention to current and enduring political issues which particularly affect women.

PUP 4931 Topics in Public Policy (3). An examination of a topic in public policy. Subject matter varies according to instructor. Topic to be announced in advance.

PUP 5934 Topics in Public Policy (3). A rigorous examination of a topic in public policy. Subject matter varies according to instructor. Topic will be announced in advance.

URP 4149 Planning and Human Ecology (3). Environmental planning and design utilizing a human ecology perspective. Examines issues of open space planning, urban design, neighborhood planning, and citizen participation.
The Psychology major requires 36 hours of upper division psychology course work, including STA 3123. All courses must be taken for a letter grade. A ‘C’ or better is required for all courses that count toward the major.

The program has the following three major psychology components and a fourth, general, component for graduation:

I. Specific Required Courses in the Following Sequence: (12)
   A. Statistics (offered by the Department of Statistics):
      STA 3123 - Introduction to Statistics II
   B: PSY 3213 Research Methods in Psychology (Prerequisites: STA 3123) 3
   C. Advanced laboratory or field experience (Prerequisites: STA 3123 and PSY 3213) 5
   Note: Because the three courses in this component of the program must be taken in sequence, the first course (STA 3123) should be taken no later than the first semester of the junior year.

II. Distribution Requirement Courses: (15 semester hours)
   To fulfill this required component, each student must take one course or a laboratory/field experience from each of the five areas (A-E) listed below.

   Lecture Courses
   Area A: Experimental
   EXP 3523 EAB 4034
   EXP 4204 EXP 4214
   EXP 4605 EXP 4404
   EAB 3002 EXP 4005
   PSB 4003
   Area B: Social
   SOP 3004 SOP 4649
   SOP 4522 SOP 4215
   SOP 4645 SOP 4714
   SOP 3742
   SOP 4414
   SOP 4525
   Area C: Applied
   CYP 3003 INP 4055
   INP 4203 SOP 4331
   PPE 4604 CYP 4953
   SOP 4834 SOP 4714
   SOP 4842
   SOP 4662
   Area D: Personality/Abnormal
   CLP 3003 PPE 4325
   CLP 4144

III. Required Psychology Course Electives: (9)
   Any psychology course taken for a letter grade can be used to fulfill the requirement for electives.
   Note: In some cases a student may fulfill a distribution area requirement with a laboratory course and may not therefore take a lecture course in that area. In such a case, the student must take four (12 hours) elective courses so that the total number of upper division hours for the psychology major reaches the required number of 36 credit hours.

IV. Electives to Complete the requirement of 60 credit hours: (24)
   A student may, but is not required to, take additional upper division psychology courses beyond the required 36 hours towards the fulfillment of the 60 upper division credit hours needed for graduation.
   Students may, with the permission of the instructor, take PSY 4900 and PSY 4916, which are given Pass/Fail grades. These courses can therefore not count in the category of Required Psychology Electives, but they can be used as additional credit towards graduation. There is a College requirement that at least nine hours of elective credit (not including STA 3123) must be outside of Psychology.
   Remarks: (1) The student is strongly urged to contact the Psychology Department for advisement in curriculum planning; (2) Psychology majors are allowed to transfer a maximum of ten upper division semester credit hours toward the psychology degree.

Bachelor’s Degree with Honors
   Application must be made and departmental approval granted, to undertake an independent project which must be approved by and carried out under the supervision of a member of the Department. Upon completion of
the study, a satisfactory oral defense of the work must be presented to a Department committee.

Note: The Bachelor's degree offered in this program is a liberal arts degree and not a professional degree. While it is possible to concentrate courses in one's area of interest, it is not possible at the present time to obtain a 'professional specialization' at the undergraduate level in psychology.

Minor in Psychology
A Minor in Psychology requires 15 upper division semester hours of approved psychology credits. Students seeking the minor must meet with a psychology faculty member for advisement and should file with the Psychology Department a written notice of intention to minor in psychology. A grade of 'C' or higher is required in all courses counted toward the minor.

Course Descriptions
Definition of Prefixes
CLP-Clinical Psychology; CYP-Community Psychology; DEP-Developmental Psychology; EAB-Experimental Analysis of Behavior; EDP-Educational Psychology; EXP-Experimental Psychology; INP-Industrial and Applied Psychology; LIN-Linguistics; PCO-Psychology for Counseling; PPE-Psychology of Personality; PSB-Psychobiology; PSY-Psychology; SOC-Sociology; SOP-Social Psychology; SPA-Speech Pathology and Audiology

CLP 3003 Personal Adjustment (3).
Study of personal adjustment in the social and occupational life of the individual. Emphasis on interpersonal aspects of effective behavior.

CLP 4144 Abnormal Psychology (3).
Various forms of behavior pathology are examined in the light of traditional and current concepts of mental health and illness. Problems of diagnosis and treatment are discussed. The role of social mores is examined.

CLP 4374 Psychotherapy (3). Current approaches to the treatment and improvement of psychological disorders are critically surveyed. Emphasis is placed on the examination of the various techniques of psychotherapy and behavior therapy. Broader strategies of prevention and mental health promotion, like consultation, counseling, and programmed agency services, are also studied.

CLP 4444 Personality Disorders (3). Studies personality disorders according to current concepts of mental health and illness. Emphasis given to current theoretical and diagnostic categories. Prerequisite: CLP 4144.

CLP 5166 Advanced Abnormal Psychology (3). Advanced study of the causes, psychopathology manifestations, and social and personal consequences of behavior disturbance. Emphasis is placed on the critical examination of current research on the biological, psychological, and social aspects of these disorders. Clinical approaches to diagnosis, course, and prognosis in the contemporary mental health context (including 'practicum' assignments if feasible) are covered.

CLP 5169 Proseminar in Developmental Psychopathology (3). A comprehensive review of topics in developmental psychopathology including history, scope, methods, individual and contextual influences, developmental course, long-term outcomes, and resilience. Prerequisites: Graduate standing or permission of the instructor.

CLP 5175 Personality Dynamics (3).
A review of different approaches to the study of personality. Prerequisites: Successful completion of a course in theories of personality, or equivalent. Permission of the instructor.

CLP 5185 Current Issues in Mental Health (3). A critical, intensive examination of selected, important issues in mental health. Emphasis is given to the empirical study of contemporary problems related to the making of mental patients; planning, programming, and administering mental health services; political, ethical, and legal constraints on the operation of mental health facilities; interdisciplinary cooperation among helping and human service professionals; and evaluation of preventive care and treatment services. Prerequisite: Abnormal Psychology or permission of the instructor.

CLP 5931 Ethical Code in Psychological Practice (3). Ethical principles, rules, procedures of Psychologists. Clinical application and incorporation of the principles into professional interactions. Ethical reasoning is emphasized.

CYP 3003 Introduction to Community Psychology (3). An introduction to the issues and scope of Community Psychology. Students will be exposed to the development of Community Psychology as a growing discipline. Particular emphasis will be placed on the role of the community psychologist as an agent of social change.

CYP 4953 Community Psychology Field Experiences I (5). Students will be organized into task-oriented teams or will work independently in the community, for the purpose of becoming familiar with various community institutions and developing an action plan for assisting institutions in implementing change. Prerequisite: PSY 3213 or STA 3123. (Lab fees assessed)

CYP 5534 Groups as Agents of Change (3). Theory and practice in utilizing groups as agents of change or development in communities and organizations. Didactic presentation and structured exercises focus on relevant issues. Students design and implement problem-focused interventions, using class as client system.

CYP 5954 Community Psychology Field Experiences II (5). Same orientation and description as Field Experience I. Students in this course will be able to pursue their work with community institutions in more depth. Prerequisite: Students enrolled in this course must have completed Community Psychology Field Experiences I.

DEP 2000 Human Growth and Development: Introductory Developmental Psychology (3). An introductory study of the development of personality, intelligence, and motivation, from childhood to adulthood. Emphasis is on development of cognitive systems through social learning. The full life span of human growth and development will be considered. Prerequisites: PSY 2020 or equivalent.

DEP 2001 Psychology of Infancy and Childhood (3). An introduction to human development focusing on infancy and childhood. Particular attention will be devoted to intellectual, personality, and social development. Consideration will be given to both theoretical and empirical perspectives.

DEP 3115 Development in Infancy: The Basis of Human Knowledge (3). Provides a comprehensive review of
current methods, theories, and findings in cognitive and perceptual development in the first year of life. Special emphasis on the bases of knowledge; object and event perception, memory, and imitation. Prerequisites: PSY 2020 and one developmental course, any level recommended.

DEP 3303 Psychology of Adolescence (3). An examination of psychological, sociological and biological factors contributing to the changes from childhood to adolescence, and biological factors contributing to the changes from childhood to adolescence, and from adolescence to young adulthood.

DEP 3404 Psychology of Adulthood (3). The transition from youth to middle age is studied. Focus is on changing roles in family, work, and societal settings, as these factors influence personality and other aspects of psychological function.

DEP 4014 Psychology of Parenting & Parenthood (3). An intensive examination of the reciprocal influences of parents on the development of their children and of children on the adult development of their mothers and fathers.

DEP 4032 Life-Span Cognitive Development (3). Course covers all facets of cognitive growth, change, and decline from infancy through adulthood, and old age. Prerequisite: DEP 2000, DEP 2001, DEP 4164, or DEP 4464.

DEP 4044 Psychology of Moral Development (3). A review of psychological theories and research concerning the development of moral attitudes and behavior.

DEP 4046 Psychology of Adoption (3). An advanced undergraduate seminar involving intensive reading and discussion of the research literature on adoptive families, adoptive parenting, and adoptee outcome. Prerequisite: Senior standing.

DEP 4164 Children’s Learning (3). Learning in infancy and childhood, with particular emphasis on simple conditioning, discrimination shifts, mediation, transposition, observational, and concept learning. Prerequisite: Students enrolling in this course should have completed successfully at least one prior course in developmental psychology.


DEP 4213 Childhood Psychopathology (3). Various forms of abnormal behavior in infancy, childhood, and adolescence are examined within the context of traditional and contemporary psychological theory. Problems of differential diagnosis and forms of remediation are discussed.

DEP 4321 Development of Sexual Identity: A Life Span Approach (3). Reviews developmental and clinical theory and research on sexual identity across the life span, emphasizing the influence of personal change, close relationships, and community factors. Prerequisite: PSY 2020.

DEP 4324 Psychology of Identity Development (3). An introduction to psychological theory, research, and application in the area of identity development.

DEP 4407 Current Issues in Aging (3). A focus on current issues having both theoretical and applied relevance to the psychology of older adulthood. Students are required to make several field trips outside of class during the semester.

DEP 4464 Psychology of Aging (3). An examination of the factors that contribute to the psychological profile characterizing old age. Biological and sociological components are considered, and their impact on perceptual, cognitive, and personality processes is analyzed.

DEP 4704 Developmental Psychology: Lecture (2) DEP 4704L Developmental Psychology Laboratory (3). Lecture/Laboratory observation exercises illustrative of the concepts and research techniques used in developmental psychology. Particular emphasis is given to cognitive and social-cognitive development. This course is for seniors who have completed PSY 3213, one developmental psychology course, and STA 3123. (Lab fees assessed)

DEP 5056 Issues in Life-Span Developmental Psychology: Infancy through Old Age (3). A survey in depth of theories, issues, methods, and data in life-span developmental psychology through the entire age range. Prerequisites: DEP 2001 or DEP 4464, or their equivalents, are recommended.

DEP 5058 Biological Basis of Behavior Development (3). Introduction to theory and research underlying behavioral development. Covers such pre-and post-natal determinants as evolution, genetics, neuroendocrines, as well as social development, behavioral ecology, and sociobiology. Prerequisite: Graduate standing or permission of the instructor. Corequisite: Proseminar courses.

DEP 5068 Applied Life Span Developmental Psychology (3). This course is designed to acquaint the student with various applications in life-span developmental psychology. An overview of general issues and areas of application is offered, and specific applications are considered. Prerequisite: Graduate standing or permission of the instructor.

DEP 5099 Proseminar in Infancy, Childhood, and adolescence (3). Provides a comprehensive review of issues in perceptual, cognitive, social, emotional, and personality development from infancy through adolescence. Prerequisite: Graduate standing or permission of the instructor. Corequisite: Pro-seminars.

DEP 5118 Current Issues in Cognitive and Perceptual Development in Infancy (3). Provides an in-depth analysis of current issues, methods, research and theory of cognitive and perceptual development during the first year of life. Special emphasis on object and event perception, memory, and imitation. Prerequisites: Two courses in developmental psychology - any level recommended.

DEP 5185 Emotional Learning & Its Reversal (3). Theoretical analyses and methodological issues in the study of emotional learning. Prerequisites: Graduate standing or permission of the instructor.

DEP 5315 Proseminar in Parent-Child Relations (3). Provides an overview of key issues in parent-child relations including culture, socialization genetics, fatherhood, timing, adoption, work, effects of children on parents, and parent training. Prerequisite: Graduate standing or permission of the instructor.
DEP 5344 Psychology of Moral Development (3) An introduction to the literature on moral development. Review and discussion of recent developments in this area. Prerequisites: Graduate standing or permission of the instructor.

DEP 5405 Proseminar in Psychology of Adulthood and Aging (3). A comprehensive review of topics in adulthood and aging including: biological changes, social processes, work, family, cognition, memory, personality, and psychopathology. Prerequisite: Graduate standing or permission of the instructor.

DEP 5608 Theoretical Perspectives in Developmental Psychology (3). The focus of this course is on the major paradigms, models, and theories that have been influential in developmental psychology, both historically and contemporaneously. Meta-theoretical issues, paradigmatic influences, and specific theories are considered. Prerequisite: Graduate standing or permission of the instructor.

DEP 5725 Research Seminar in Psychosocial Development (1). This course is designed to develop research skills and competencies in the area of psychosocial development. The emphasis of the course is on involvement in original research. Prerequisite: Permission of the instructor. Corequisite: Senior undergraduate or graduate standing.

DEP 5796 Methods of Developmental Research (3). Survey of issues and methods at all stages of life-span developmental research including theory, methods, design, and data reduction. Prerequisite: Graduate standing or permission of the instructor. Corequisite: proseminars.

EAB 3002 Introduction to the Experimental Analysis of Behavior (3). An introduction to and survey of the principles, methods, theories, and applications of the experimental analysis of behavior. PSY 2020 or PSY 2012.

EAB 3765 The Application of Behavior Analysis to Child Behavior Problems (3). The applications of the theories and methods of behavior analysis to various childhood behavior disorders including anxiety and phobia, attention deficit disorders, autism and obesity. Prerequisite: EAB 3002.

EAB 4034 Advanced Behavior Analysis (2). EAB 4034L Advanced Behavior Analysis Lab (3). Strategies and tactics in the scientific approach to behavioral research, both basic and applied. Both lecture and laboratory sessions are involved. Prerequisite: EAB 3002 or equivalent. Corequisite: EAB 4034L.

EAB 4794 Principles and Theories of Behavior Modification (3). Studies different approaches to the modification of problem behavior, through the application of learning principles and theories. Prerequisite: EAB 3002.


EAB 5005 The Experimental Analysis of Behavior (3). An advanced survey of the principles of respondent and operant conditioning and the bases of action in both social and non-social settings. Prerequisites: EAB 3002, EAB 4034, or equivalents.

EAB 5655 Advanced Methods of Behavior Change (3). An intensive study of selected methods of modifying human behavior, emphasizing the applications of the principles of respondent and operant conditioning, as well as those derived from modern social learning theories. Practice and role playing opportunities are provided in behavior therapy, relaxation therapy, behavior modification, biofeedback or similar behavioral approaches. Prerequisites: EAB 4794, CLP 4374, CYP 4144; enrollment in an authorized program; equivalent background; or permission of the instructor.

EAB 5797 Single-Case Research Methods (3). Intensive study of designs, strategies, and methods of single-case behavioral research. Prerequisites: Graduate standing or permission of the instructor.

EXP 3304 Motivation and Emotion (3). Introduces several perspectives from learning theory, perception, and personality theory to explore ways in which people move through their physical and social environment.

EXP 3523 Memory and Memory Improvement (3). This introduction to human memory considers the topics from a number of points of view. The following issues are addressed: the nature of memory and its phenomena; the capabilities and limitations of an ordinary and an extraordinary memory; and the skills that can aid an ordinary memory.

EXP 4005 Advanced Experimental Psychology (2) EXP 4005L Advanced Experimental Psychology Lab (3). Lecture and laboratory course investigating experimental research in the fundamental processes of human behavior. Includes perceptual, cognitive, and linguistic processes. Prerequisites: PSY 3213 and STA 3123. (Lab fees assessed)

EXP 4204 Sensation and Perception (3). Basic concepts in sensation and perception are explored, with an emphasis on models of peripheral and central neural processing. Topics such as receptor function, brightness and color vision, movement and object perception, perceptual memory and pattern recognition are considered. Psychophysical techniques, such as subjective magnitude estimation and signal detection theory, are covered. (Lab fees assessed)

EXP 4214C Human Perception: Lecture (2) and Laboratory (3). Lectures concern the methods researchers use to learn about the phenomena of sensation and perception. Laboratory exercises allow students to apply these methods to experience the perceptual phenomena under investigation. Prerequisites: PSY 3213 and STA 3123.

EXP 4404C Human Learning and Remembering: Lecture (2) and Laboratory (3) (5). Lectures on the research and theoretical contributions to the understanding of human learning and remembering; and laboratory exercises illustrative of the concepts and techniques used in conducting experimental studies of human learning and remembering. Prerequisites: PSY 3213 and STA 3123. (Lab fees assessed)

EXP 4605 Cognitive Processes (3). Investigation of the mental processing underlying experiences and behavior. Topics include: games, puzzles, and problems; intuitive and creative thought; conceptualization, reasoning and clinical diagnosis; choices and decisions; conceptions of time and space; and thought in abnormal or altered states of consciousness.
EXP 4934 Current Experimental Theories (3). The stress in this course is on current specific theories determining the nature and direction of the research and interest in several important areas, such as psychophysics, learning and remembering, developmental patterns and motivation, personality, etc. Topics to be covered will be announced at the beginning of the academic year. May be taken twice for credit toward the major.

EXP 5099 Proseminar in Experimental Psychology (3). Provides a comprehensive review of current research and theory in areas such as learning, memory, cognition, sensation, and perception. Prerequisite: Graduate standing or permission of the instructor.

EXP 5406 Theories of Learning (3). The major theoretical systems of learning are covered, with the intent of determining how well each accounts for the phenomena of learning. Emphasis is placed on exploring the controversial issues raised by extant theories, and the experimental resolution of these theoretical controversies. The impact of theory on current thinking about learning is considered.

EXP 5508 Applied Cognitive Psychology (3). Covers the basic theories of cognitive psychology perception, attention, memory, learning, knowledge, with emphasis on application to real-world problems. Prerequisite: Graduate standing.

EXP 5524 Cognitive Neuroscience (3). Investigation of the relation between mind and brain. Discuss literature from both patient studies and from the growing research in neuroimaging. Prerequisite: Graduate standing.

EXP 5527 Memory and Consciousness (3). The relation of memory and consciousness is explored with emphasis on issues of current research and theoretical work from both a cognitive and a neuropsychological perspective. Prerequisite: Graduate standing.

INP 2002 Introductory Industrial/Organizational Psychology (3). Introduction to the study of behavior in the work environment. Illustrative topics include formal and informal organization, work motivation, satisfaction and performance, leadership, job analysis, selection and performance evaluation, training, and development.

INP 4055C Industrial/Organizational Psychology Lecture (2) INP 405SL Industrial/Organizational Psychology Laboratory (3). Students gain experience with the use of psychometric instruments in the areas of job analysis, personnel selection, performance appraisal, job satisfaction, criteria analysis, and management training and development. Prerequisites: PSY 3213; STA 3123; and INP 2002 or INP 4203, or Personnel Management. Lab fees assessed.

INP 4203 Personnel Psychology (3). Techniques and procedures applicable to the selection, placement, utilization, and evaluation of personnel in organizations are considered. The emphasis will be on empirical procedures, rather than the management function in the personnel area. Topics such as quantitative methods and models for selection, criteria analysis, performance appraisal, management training, and job satisfaction are discussed. Prior course in statistics strongly recommended.

INP 5095 Proseminar in Industrial Psychology (3). Provides coverage of industrial and personnel psychology topics such as job analysis, personnel recruitment and selection, legal aspects of employment, performance appraisal, and training design and evaluation. Prerequisites: Acceptance to Master’s or Ph.D. program in Psychology.

INP 6611 Organizational Stress (3). This seminar examines conceptualizations, causes, consequences, and correlates, of stress, strain, and coping in the workplace. Prerequisite: Graduate standing.

LIN 4705 Psychology of Language and Cognition (3). Investigation of the psychological processes underlying language. Attention will be devoted to speech perception, comprehension, written language, and the biological basis of language abilities. Prerequisite: PSY 2020.

LIN 4710 Language Acquisition (3). An examination of the way children acquire language, based on experimental findings from contemporary linguistics, psycholinguistics, and behavioral theory.

LIN 5701 Psychology of Language (3). An overview of the psychology of language and the psychological 'reality' of linguistic structure. Behavioral vs. cognitive views of psycholinguistics are examined. Consideration is given to the biological bases of language and thought, language acquisition, and language pathology.

PPE 3003 Theories of Personality (3). An examination of various theories of personality. Consideration is given to traditional and contemporary approaches to personality development.

PPE 3502 Psychology of Consciousness (3). Normal and altered states of human consciousness are analyzed from the perceptual and neuropsychological viewpoint. Broad topic areas include physiologically determined levels of arousal, from deep sleep to intense excitement; selective attention; perceptual plasticity; illusions; sensory deprivation; biofeedback; psychosomatic disease; hypnotism and suggestibility; as well as a critical treatment of the phenomena of parapsychology.

PPE 3670 Psychology of Myth (3). Mythology is studied from various psychological viewpoints. The process of Myth. Creation and the role of ritual in psychological enhancement are emphasized. Course focuses on classical mythology.

PPE 4104 Humanistic Psychology (3). Studies the methodology, research, and findings of the humanistic orientation in psychology. Topics such as counseling, encounter groups, higher consciousness, biofeedback, intentional communities, education, mysticism, and religion are examined from the humanistic viewpoint. Prerequisite: Prior completion of a course in Theories of Personality is recommended.

PPE 4325C Differential Psychology: Lecture (2) and Laboratory (3). Lectures and laboratory field experiences in the principles and methods underlying the administration, construction, and evaluation of psychological tests. Practice in the administration and interpretation of selected psychological tests. Prerequisites: STA 3123 or an equivalent introductory course in statistics, and PSY 3213. Lab fees assessed.

PPE 4514 Psychology of Dreams and Dreaming (3). An in-depth examination of the most important psychological theories of dream function and
of the use of dreams in different therapeutic approaches. The current research on the physiology and psychology of sleep is also evaluated. Prerequisite: Theories of Personality or its equivalent.

PPE 4604 Psychological Testing (3). An introduction to the rationale underlying the use of psychological tests. Topics include basic test terminology, test administration, interpreting standard scores, reliability, validity, tests of intelligence, interest inventories, personality tests, the ethics of testing, and the fairness of tests for different segments of the population. Prerequisites: STA 3123 or equivalent.

PPE 4930 Topics in Personality (VAR). Special topics will be announced in advance.

PSB 4003 Introductory Biological Psychology (3). A study of the more important psychobiologic correlates of behavior in basic psychological phenomena.

PSB 4315 Neuropsychology (3). The relation of brain to cognition and behavior. An introduction to the study of the effects of brain damage on psychological processes.

PSY 2020 Introductory Psychology (3). Psychological principles underlying the basic processes of sensation, perception, cognition, learning, memory, life-span developmental, social behavior, personality, abnormal behavior, and psychotherapy.

PSY 3213 Research Methods in Psychology (3). Basic methods in contemporary psychology. Emphasis on the role of methodology and experimentation in subfields of psychology. Students evaluate different designs and conduct original research projects. Prerequisite: STA 3123. (Lab fees assessed)

PSY 3930 Psychology of Humor (3). A study of the development of sense of humor in comedians and audiences; its expression in the production and appreciation of comedy, etc.; its psycho-physiologic-social correlates; its effect in maintaining well-being and preventing illness; and its role in human relations.

PSY 4024 Seminar in Research and Careers in Psychology (3). Prepares students to enter careers in Scientific Psychology; towards preparations for graduate school; to assist in participation in research; and to know about options in Psychology. Prerequisite: PSY 2020. Corequisites: PSY 4914 or PSY 4916 or permission of instructor.

PSY 4801 Metatheory in Psychology (3). Issues related to the metatheoretical foundation of psychology, and history and systems of psychology.

PSY 4822 Female Sexuality (3). Psychological and behavioral aspects of women’s sexuality will be explored, including: anatomy, sexual functioning, pregnancy/childbirth. Sexual orientation, sexual variations, sexual assault/abuse, and relationships. Prerequisites: PSY 2020 (Intro to Psychology) or WST 3015 (Intro to Women’s Studies).

PSY 4900 Independent Readings in Psychology (VAR). Limited to qualified students who have permission from a faculty member and who present a plan of study including area and objectives. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their study. Offered for Pass/Fail only.

PSY 4914 Honors Research Project (VAR). Limited to qualified seniors seeking honors in psychology. Students must submit a research plan and have a research advisor’s approval of the research project prior to enrollment in the course. A written report of the research in the A.P.A. publication style must be submitted for evaluation before credit will be awarded. Offered for Pass/Fail only.

PSY 4916 Independent Research in Psychology (VAR). Limited to qualified students who have permission from a faculty member and who present a written proposal for research. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their research.

PSY 4930 Special Topics in Psychology (3). Special topics will be announced in advance.


PSY 4932 Psychology of Human Communication (2). PSY 4932L Psychology of Human Communication Lab (3). This course covers psychological theory, research and application in the area of human communication. Prerequisite: STA 3123, PSY 3213. (Lab fees assessed)

PSY 4941 Independent Field Experiences in Psychology (VAR). Limited to qualified students who have permission from a faculty member and who present a plan of study including area and objectives. Students enrolled in this course are expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their experiences.


PSY 5216 Proseminar: History and Systems of Psychology (3). An examination of the historical foundations of modern psychology and survey of current systems and schools of psychology. Prerequisites: Graduate standing or permission of the instructor.

PSY 5246C Multivariate Analysis in Applied Psychological Research (3). Covers basic techniques of multivariate analysis, emphasizing the rationale and applications to psychological research. Includes multiple regression, Hotelling’s T², MANOVA, principle component analysis, and factor analysis. Prerequisite: STA 3123 or equivalent; linear algebra recommended.

PSY 5908 Directed Individual Study (VAR). Under the supervision of an instructor in the graduate degree program, the graduate student delves individually into a topic of mutual interest which requires intensive and profound analysis and which is not available in a formal offering. May be repeated once. Prerequisite: Permission of the instructor.

PSY 5917 Psychology Research Proseminar (3). Specialized research and presentation to faculty members in his or her major research area. Seminar style. This course is intended as a core course for the masters program in
psychology. Prerequisite: Full graduate admission.

PSY 5918 Supervised Research (VAR). Research apprenticeship under the direction of a research professor or a thesis advisor. Prerequisite: Full graduate admission.

PSY 5930 Qualitative Research Methods in Development Psychology (3). Review recent developments in qualitative research methods. The focus will be on the application of these methods to research on human development. The interpretation of qualitative and quantitative methods will be stressed.

PSY 5939 Special Topics in Psychology (3). Special topics will be announced in advance.

SOP 2772 Psychology of Sexual Behavior (3). An examination of the nature, development, decline, and disorders of sexual behaviors, primarily from the perspectives of normal adjustment and interpersonal relations. Discussion also addresses love, intimacy, and similar emotionally charged socio-psychological topics. Modern and popular treatment approaches - including the 'new sex therapies' - are critically evaluated.

SOP 3004 Introductory Social Psychology (3). Introduction to the study of the relationship of the individual to social systems, including topics such as social behavior, attitude development and change, social conflict, group processes, mass phenomena, and communication.

SOP 3015 Social and Personality Development (3). This course provides a survey of social and personality development throughout the life cycle. Emphasis will be placed on the interaction between psychological and environmental variables in life-span development changes.

SOP 3742 Psychology of Women (3). An examination of women from various perspectives, such as biological, anthropological, mythological, religious, historical, legal, sociological, and psychoanalytical points of view. Discussions of ways in which these various perspectives influence the psychological development of contemporary women.

SOP 3932 Psychology of Drugs and Drug Abuse (3). This course will cover some basic information about the nature and effects of drugs abused, the social and personal dynamics involved in the phenomena of drug abuse and the various rehabilitation programs currently being employed to combat drug abuse.

SOP 4050 Social Psychology in Latin America (3). Upper division seminar on Social Psychology in Latin America. The course will provide the student with the opportunity to survey the literature and research in social psychology from different countries in Latin America and to compare that material with on-going research and literature in the United States. Prerequisites: SOP 3004 and reading knowledge of Spanish.

SOP 4215 Experimental Social Psychology: Lecture (2) and Laboratory (3). The primary purpose of this course is to have students conduct actual social psychological experiments. Lecture material will be secondary to (and in the interest of) allowing students to execute representative experiments in areas such as attitude measurement and change, group structure, and communication, etc. Prerequisites: PSY 3213 and STA 3123. (Lab fees assessed)

SOP 4331 Experimental Health Psychology Lecture (2). The methodological tools to design, conduct, analyze, and interpret a study of some aspect of health and illness. Lectures provide an overview of theory in health psychology. Prerequisite: STA 2122/3123 and PSY 3213.

SOP 4331L Experimental Health Psychology Laboratory (3). The methodological tools to design, conduct, analyze, and interpret a study of some aspect of health and illness. Lectures provide an overview of theory in health psychology and labs provide opportunities to operationalize theories and constructs in psychology. Prerequisite: STA 2122/3123 and PSY 3213.

SOP 4414 Attitudes and Social Behavior (3). A review of classic and contemporary social psychological research on attitudes and persuasion. Emphasis will be placed on using persuasion processes to ameliorate social problems. Prerequisite: PSY 2020.

SOP 4522 Social Motivation (3). Focuses upon those sources of human motivation that are a consequence of man's social-interpersonal environment and his striving to obtain valued goals. Topics discussed include test-taking anxiety, alienation and affiliation motivation, internal vs. external orientation, achievement motivation, etc. The measurement of social motives and their roots and consequences for behavior are discussed.

SOP 4525 Small Group Behavior (3). Introduction to the study of the structure and function of groups, emphasizing the behavior of individuals as affected by the group. The course focuses on experimental evidence concerning such topics as social facilitation, group decision making, phases in group development, physical factors in group behavior, etc.; rather than upon student experience in sensitivity or encounter training.

SOP 4645 Consumer Psychology (3). This course addresses the psychological components contributing to satisfaction and dissatisfaction in buying and selling transactions. The consequences of such transactions, as they affect the environment in which we live as well as society in general, are examined. The interface between business, labor, government, and the consumer as all four groups are involved in consumer affairs is analyzed objectively.

SOP 4649 Experimental Consumer Psychology: Lecture (2) and Laboratory (3). Using the interactive workshop and objective observational methods, students will be required to conduct original research projects related to solving consumer affairs problems. Laboratory requirements include both on-and off-campus work. The former emphasizes techniques and evaluation. The latter is necessary for the gathering of data. Prerequisites: PSY 3213 and STA 3123. (Lab fees assessed)

SOP 4662 Organizational Psychology (3). Focuses on the “organizational” topics associated with the field of industrial/organizational psychology. Includes, leadership, team effectiveness, work and family issues.

SOP 4712 Environmental Psychology (3). An introduction to the study of human-environment transactions, with an emphasis on applications of physiological, psychological, and social theories.
SOP 4714 Environment and Behavior: Lecture (2) and Laboratory (3). Students gain experience with laboratory and field techniques used in the study of the reciprocal relationship between the physical environment and human behavior. Prerequisite: PSY 3213 or permission of the instructor. (Lab fees assessed)

SOP 4834 Psychology of Health and Illness (3). Course provides an overview of the field of behavioral medicine, the interface of psychology with health and health care. Psychological factors in illness, health, and health delivery systems will be covered. Prevention and early intervention will be stressed.

SOP 4842 Legal Psychology (3). Particular emphasis will be given to interpersonal courtroom processes. Topics considered include scientific jury selection, proximics, persuasive argumentation, witness demeanor, eyewitness testimony, and similar influences upon juror decision making.

SOP 5058 Proseminar in Social Psychology (3). An in-depth examination of the role of social psychology in the social sciences and the major substantive problems as they relate to contemporary societal issues. Minimum prerequisite: An introductory course in social psychology or its equivalent.

SOP 5081 Psychological Influences On Health and Illness (3). Provides a comprehensive review of theory, research, and interventions in the field of health psychology. Prerequisite: Graduate standing or permission of the instructor.

SOP 5316 Theories and Methods of Cross-Cultural Research (3). An intensive analysis of contemporary theories and methods of cross-cultural research in psychology including topics such as: culture as a research treatment, differential incidence of personality traits, the use of ethnographies, ‘etic’ vs. ‘emic’ distinction. Prerequisite: Graduate standing or permission of the instructor.

SOP 5616 Social Psychology of Organizations (3). The application of concepts and theories from social psychology and sociology to the organizational setting. Emphasis would be on role theory, value formation and the operation of norms, including their development and enforcement. Formal and informal organization structure, power and authority concepts, and leadership theories will be covered. Communication processes and networks and their effects on task accomplishment and satisfaction will be included.
Religious Studies

Nathan Katz, Professor and Chairperson
Ranabir Chakravarti, Fulbright Visiting Professor
Christine Gudorf, Professor
Steven Heine, Professor
James Hugheson, Associate Professor and Undergraduate Program Director
Erik Larson, Associate Professor
Deborah Dash Moore, Davidson Visiting Eminent Scholar
Lesley Northup, Associate Professor and Graduate Program Director
Terry E. Rey, Assistant Professor
Oren B. Stier, Assistant Professor
Zion Zohar, Visiting Assistant Professor
Affiliated Faculty
Thomas A. Breslin
Bongkil Chung
Paul Draper
David L. Lee
Mohiaddin Messbahi
Joseph F. Patrouch
Felix Pomeranz
Meri-Jane Rochelson

Bachelor of Arts in Religious Studies

Degree Program Hours: 120

Lower Division Preparation

Common Prerequisites
No specific courses required; all students are encouraged to complete the Associate in Arts degree.

To qualify for admission to the program, PUI undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program. Recommended Courses: Religion, Philosophy, and History.

Upper Division Program: (60)

Required Areas

The Religious Studies major serves as a basis for students who wish to pursue the study of religion or theology as a career, for students preparing for a career in counseling, education, business, law or medicine, or for students who wish to undertake a dual major in a related field of study. The major is designed to allow students to focus either on comparative topics in a critical approach to understanding religious phenomena and their relation to society in a broader cultural context or on the theory and practice of a specific religious tradition in its historical setting.

Required Courses

The major requires 33 credits distributed in the following sequence:

1. Foundation Courses (6 credits), selected from a group of courses that provide students with an introduction to multicultural approaches and interdisciplinary methodologies in the study of religion and thus a foundation for more specialized studies:

   REL 2011 Religion, Analysis and Interpretation
   REL 3027 Meditation and Mystical Traditions
   REL 3091 Joseph Campbell & the Power of Myth
   REL 3148 Violence and the Sacred
   REL 3170 Ethics in World Religion
   REL 3211 Jesus and the Early Christians
   REL 3302 Studies in World Religions
   REL 3492 Earth Ethics

2. Focus Courses (24 credits), including 18 or more credits in Religious Studies and up to 6 credits in Related Areas, in focus or specialized courses selected at the 3000 or above level. Related Areas are selected from courses in Art History, English, History, Humanities, International Relations, Philosophy, Psychology, or Sociology/Anthropology, in order to further enhance the interdisciplinary nature of Religious Studies. These courses the student develops an area of concentration in one of the following topics:

   a) Comparative Studies of Religion (comparative studies of myth and ritual, textual studies, or social scientific studies), OR
   b) Studies of a Specific Religious Tradition (in-depth studies of an eastern, western, indigenous, or syncretic tradition), OR
   c) Religion, Culture and Values (analysis of religion in relation to women’s studies, science, the environment, society, or ethics).

3. Capstone Course (3 credits), a senior or capstone seminar in advanced studies of religion:

   REL 4030 Methods in the Study of Religion, OR
   REL 4205 Current Methods in Studies of Sacred Texts

General Electives

The College of Arts and Sciences requires for the bachelor’s degree a student take at least nine hours outside the major discipline, of which six hours must be taken outside the major department.

Remarks: A complete description of the Religious Studies Program is contained in a brochure available at the Department of Religious Studies. Students should refer to the brochure for specific requirements of the major program. Students select their required courses in Religious Studies with the approval of the Undergraduate Program Director.

Students are also encouraged to consider a dual major i.e., simultaneously to meet the requirements of two academic majors.

The Department serves the community and professional groups by offering courses off campus. For further information concerning these courses consult the department.

Minor in Religious Studies

A student majoring in another academic discipline can earn an academic minor in Religious Studies by taking at least four REL courses (12 upper division semester hours). Students are encouraged to take REL 3302 as one of these courses.

Honors Track in Religious Studies (B.A.)

Requirements:

a. To earn the B.A. with Honors in Religious Studies, a student must maintain a 3.5 GPA in religious studies courses.

b. Candidates for the B.A. with Honors in Religious Studies will complete the same requirements as for the B.A. major with one exception: among the “Focus Courses” 21 semester hours of course work will be taken plus 3 semester hours of “Religious Studies Research,” during which a thesis or honors paper will be proposed, researched, written and defended orally.

c. In the semester prior to graduation, the student will enroll in “Religious Studies Research” (REL 4912), in which he/she will expand a term paper into an honors paper/thesis, or will begin a thesis anew, under the direction of an appropriate member of the Religious Studies faculty.
d. When the thesis is approved by the faculty member, the coordinator of REL 4912 will organize and schedule a defense of the honors paper/thesis, at which the student will present his/her research and will respond to questions from faculty and students. This requirement will be deemed to have been met upon a majority positive vote of faculty.

e. The honors paper/baccalaureate thesis normally would be approximately 25-35 pages, must be presented according to FIU regulations (available in the department office), and will be deposited in the FIU Library. The honors paper/thesis must demonstrate that the student has mastered skills in defining a topic, research and expository writing, as well as oral skills required for the presentation and defense of the honors paper/thesis.

### Course Descriptions

#### Definition of Prefixes

GRE-Ancient Greek; REL-Religion; HBR-Biblical Hebrew; ASN-Asian Studies.

#### ASN 4510 Dynamics of Asia (3).
An interdisciplinary study of the classical and contemporary periods in Asian civilizations, including tradition and modernization, culture and the arts, gender and diversity, and international relations.

#### GRE 3041 New Testament Greek II (3).
Continuation of New Testament Greek I. Prerequisites: New Testament Greek I or permission of the instructor.

#### GRE 3050 New Testament Greek I (3).
Introduces the Greek language of the New Testament, and other works of the ancient period to enhance the understanding of translated texts. A portion of the Gospel of John is studied.

#### HBR 3100 Biblical Hebrew I (3).
Introduces the language of the Hebrew Scriptures, portions of which are read in class.

#### HBR 3101 Biblical Hebrew II (3).
A continuation of Biblical Hebrew I. Prerequisite: Biblical Hebrew I.

#### REL 2011 Religion: Analysis and Interpretation (3)
Introduces methods of critical reflection on religion and some of their applications to fundamental topics such as knowledge, value, the sacred, the individual and human society. Written work meets the state composition requirement (6000 words).

#### REL 2936, 4936 Special Topics (1-6).
In-depth study of topics of special interest in religion.

#### REL 3002 Ritual in Religion and Culture (3).
Examines ritual and its roots, functions, analysis, and meaning, both in religious contexts and as it is assimilated and adapted in the wider culture.

#### REL 3026 Ghosts, Spirits, and Folk Religions (3).
Movements in folk or popular religions in relation to the official dimension of the major traditions, including the role of ghosts and spirits, visions and dreams, and healing and prophecy.

#### REL 3027 Meditation and the Mystical Traditions (3).
The history, philosophy, and cultural impact of the role of meditation in various mystical traditions, including movements such as Kabbalah, Neo-Platonism, Sufism, Yoga, Tantra, Taoism, and Zen Buddhism.

#### REL 3028 Sacred Places, Sacred Travels (3).
The role of worship associated with sacred and ritual travels, with emphasis on Asia and Latin America and the syncretism between indigenous rites and the major religious traditions.

#### REL 3091 Joseph Campbell and the Power of Myth (3).
Examines the nature of myth, particularly from the perspective of mythologist Joseph Campbell, and focuses on his contribution to the study of myth.

#### REL 3100 Introduction to Religion and Culture (3).
This course explores both the ways religion uses culture to express its basic concerns and the ways that culture and lifestyle reflect religious perspectives. Attention will be given to traditional and popular expressions of American culture.

#### REL 3110 Religion and Television (3).
Examines the interaction of religion and television; television as a vehicle for religious programming, news, and values; and religion as a dynamic influence on the medium.

#### REL 3111 Religion in Film (3).
Students examine religious themes, images, symbols and characters in various feature and short films, a specific method of critical analysis, and the religious and societal effects of contemporary films.

#### REL 3112 Religion and Literature (3).
Using fictional and non-fictional autobiographical texts, this course examines how autobiography can serve as the articulation of a spiritual quest.

#### REL 3120 Religion in America (3).
Historical survey of the development and influence of religions in the U.S. with emphasis on the unique role of religion in American culture.

#### REL 3123 Asian Religions in the Americas (3).
This course examines the arrival, diffusion, and cultural impact of Asian religions, such as Hinduism, Buddhism, and New religions, in North and South America.

#### REL 3127 Church and State (3).
Explores the separation of church and state in the United States, reviewing its historical background and studying contemporary cases involving religious freedom.

#### REL 3131 Sects and Cults (3).
Explores the American tendency to generate new religious movements and examines a variety of these sects and cults.

#### REL 3135 African-American Religious Movements (3).
Analysis of the history, beliefs and practices of select key African-American religious movements, such as "storefront" churches and the Nation of Islam.

#### REL 3142 Sacred, Selfhood and Society (3).
The interaction between traditional and contemporary religious and psychological approaches to understanding the self and realizing authentic selfhood in relation to society.

#### REL 3145 Women and Religion (3).
Explores the involvement, portrayal, and roles of women in religion, from early goddess religions through the cult of Mary to contemporary feminist theology.

#### REL 3147 Religion and the Family (3).
A survey of, recent and contemporary debates in western religion and society over the family, family roles, and selected issues in parenting (adoptions, child abandonment, abortion, infanticide, and self-sacrifice) with some comparative treatment from non-western and minority traditions (Hinduism, Judaism, Navajo).
REL 3148 Violence and the Sacred (3). The role of religion in the inspiration, justification, avoidance, or constraint of various forms of overt or covert violence. Relevant issues in social theory.

REL 3160 Science and Religion (3). The methods, assumptions, goals of religion will be compared with those of the natural and human sciences. Specific issues, such as evolution, sociobiology, and the new astronomy will be considered to illustrate similarities and differences between the two approaches.

REL 3163 Religious Healers and Mediums (3). Religious studies' scholarship using sociological methods to explore major themes in premodern, modern and postmodern religion, with special focus on religious ritual for healing and afterlife.

REL 3170 Ethics in World Religion (3). Examines the nature of ethics in its relationship to various faith orientations around the world and surveys specific ethical problems in world religions.

REL 3171 Sex and Religion (3). A survey of religious understandings of sexuality, gender and reproduction with special emphasis on contemporary issues.

REL 3172 Reproductive Ethics (3). Surveys U.S. religion on family, surrogacy, artificial insemination and in vitro fertilization, contraception, abortion, and fetal hazards in the workplace.

REL 3179 AIDS, Ethics and Religion (3). Examines ethical issues in AIDS as framed by churches, by persons with AIDS (PWA) networks, and by AIDS workers.

REL 3180 Medical and Bioethics (3). A survey of religious treatment of ethical issues in health care and medical research.

REL 3194 The Holocaust (3). Examines different responses to the Holocaust—both during the years when it took place and afterwards. What does it mean to be a Jew, a Christian, a human being in the shadow of the Holocaust?

REL 3197 Topics in Race and Religion (3). Examines the role of religion in specific historical events such as the US civil rights movement, the rise/fall of S. African apartheid, or the subjugation of the Amerindians.

REL 3207 Jesus and the Dead Sea Scrolls (3). Explores the new light shed on the life of Jesus and the early Christian movement by the discovery of the Dead Sea Scrolls.

REL 3209 The Dead Sea Scrolls (3). Surveys scholarship on the Dead Sea Scrolls, including their significance for the study of the Bible and the history of Judaism and Christianity.

REL 3220 Moses, Priests and Prophets (3). In-depth studies of selected portions of the Hebrew Scriptures, paying close attention to the history of ancient Israel and situating the texts within the cultural milieu of the ancient Near East.

REL 3250 Jesus and the Early Christians (3). Examines the life of Jesus and the New Testament documents; what we know about Jesus, how we know it, and how and why early Christianity spread so rapidly.

REL 3270 Biblical Theology (3). Explores the ideas of God, man, redemption, ethics, and the after-life, tracing each through its development from earliest Hebrew thought to the rise of post-biblical Judaism and Christianity.

REL 3280 Biblical Archaeology (3). Explores the nature, goals and methods of biblical archaeology. A survey of the most important sites and finds that have given us a new understanding of the world of the Bible.

REL 3282 Archaeology of Israel (3). Introduction to the archaeology of the land of Israel as it relates to biblical history. Visits to major excavations will be combined with special lectures on the most significant finds of each site.

REL 3302 Studies in World Religions (3). Examines the origins, teachings, and practices of selected world religions. The specific religions selected for examination may vary from semester to semester.

REL 3313 Sources of Modern Asian Society (3). Is the contemporary period a replay of ancient religio-cultural patterns, or does it pose unique challenges? Explores how classical Hinduism, Confucianism, and Buddhism affect modern India, the "Tigers", Sri Lanka and Japan.

REL 3314 Religion on the Silk Road (3). The historical meeting point of religions east and west, on the Silk Road that linked China with Central Asia, the Middle East, and Greco Roman culture.

REL 3320 Moses, Jesus, Muhammad (3). The lives of Moses, Jesus, Muhammad and the communities they founded. Each religion's teachings are explored to reveal in what ways they are similar and in what ways unique.

REL 3325 Religions of Classical Mythology (3). Examines the beliefs and practices of ancient Egyptian, Semitic, Greek, and Germanic religions, their influences on later civilization and religious thought, and the possible continuing insights offered by each.

REL 3330 Religions of India (3). The myriad religions of India, from prehistoric origins to contemporary politicized Hinduism. Schismatic movements (Buddhism, Jainism) and "Indianized" extrinsic religions (Judaism, Christianity, Islam, Zoroastrianism).

REL 3344 Tibetan Buddhism (3). Tibetan Buddhism is an amalgam of Indian Mahayana Buddhism, Tantric Buddhism, and indigenous Shamanism. It developed unique symbolism, rituals, spiritual practices and social organization.

REL 3362 Islamic Faith and Society (3). A survey of the main facets of Islamic religion and societies from the time of Muhammad to the present.

REL 3380 Native American Religions (3). An introduction to Native American religions, including myths, rituals, shamanic practices, and beliefs. Attention will be given to contemporary issues of tribal cultures of South Florida.

REL 3383 Religions of the Caribbean (3). Developments, beliefs, rituals, and symbolic system of religious traditions of the Caribbean. Religion and society in Caribbean history.

REL 3392 Jewish Mysticism (3). An overview of the history and philosophy of Kabbala and an exploration of selected practices and techniques of Jewish mysticism.

REL 3443 Liberation Theologies (3). A survey of the major themes and methodological distinctiveness of Latin
American, African American and Feminist Liberation Theologies.

REL 3492 Earth Ethics (3). This course will explore resources from philosophy and religion that could contribute to a solution of the current environmental crisis. Ethical issues of the environment will especially be examined in the light of these resources.

REL 3505 Introduction to Christianity (3). Introduces the basic beliefs and practices of Christianity in their historical and modern forms, including both common and distinctive elements of Catholicism, Protestantism, and Eastern Orthodoxy.

REL 3510 Early Christianity (3). This course will survey the first development of Christian thought and practice from its beginnings as a primitive church to its establishment as a major faith in the Middle Ages. It will then consider the relevance of this early experience for modern movements of this faith.

REL 3520 Saints, Witches, and Cathedrals (3). Cathedrals and crusades through religious schisms and wars to Third World Christianity and women priests: select survey of major trends in Christianity.

REL 3530 Protestantism (3). Surveys Protestantism from the Reformation to the present, including the formation of Protestant theology, the relationship of Protestantism to culture and contemporary developments.

REL 3532 Reformation (3). The lives and thoughts of the leaders of the Protestant Reformation will be the focus of this course. Significant attention will be given to the personal experiences and theological perspectives which directed the actions of such persons as Luther, Calvin, and Zwingli, as well as the movements they founded.

REL 3551 Mary and Jesus (3). Biblical scholarship and theological traditions regarding Jesus of Nazareth and Mary, his mother.

REL 3564 Modern Catholicism (3). Surveys Catholicism from the Vatican Council to the present, including developments in liturgy, theology, and the relationship of the Church to the world.

REL 3600 Judaism (3). An introduction to Judaism, following a brief historical overview. Lectures and discussions will focus on the themes of Text, Time, Space, People, and Memory in classical and contemporary manifestations.

REL 3601 The Ethics of Judaism (3). Examines Jewish approaches to ethical issues. Takes into account both traditional and nontraditional approaches which claim, in some way, to be authentically Jewish.

REL 3625 Introduction to Talmud (3). Through close readings (in English translation) of specific Talmudic texts, this course introduces students to the Talmud - the magnum opus of Rabbinic Judaism.

REL 3630 American Judaism (3). Orthodox, Conservative, Reform, and other forms of American Judaism, and the impact of the Holocaust, Zionism, and anti-Semitism on American Jewry.

REL 3672 Religion and Society in Israel (3). Conquest, domination and exile are major themes in Israel's history. Responses to these experiences—assimilation, Zionism, and the secular state—are examined.

REL 3XXX Hasidic Thought (3). Analysis of the popular Jewish mystical piestistic movement that began in 18th century Eastern Europe, revolutionizing Jewish society, culture, and thought up to the present day.

REL 3XXX The Golden Age of Sephardic Jewry (3). The religious life of the Sephardic Jews as it emerged during the Golden Age of Spain in dialogue with Christians and Muslims, and as it developed throughout the Sephardic diaspora. Among the figures to be studied are Judaic philosophers, legalists and mystics, such as Maimonides, Judah Halevi, Ibn Ezra and Moses de Leon.

REL 4030 Methods in the Study of Religion (3). This course examines a number of the most important methods used in the academic study of religion, together with representative examples of the use of these methods. Prerequisite: Religious Studies major status or permission of the instructor.

REL 4146 Feminist Theology and Ethics (3). Surveys major Christian and Jewish feminists on revelation, sexuality and body, liturgy, religious community and other topics.

REL 4173 Technology and Human Values (3). This course will explore the sources and impact of modern technology from philosophical and religious perspectives. Topics to be discussed include the effects of technology upon the understanding of human nature, and the relationship among technology, the natural environment, and hopes for a livable human future.

REL 4205 Current Methods in Sacred Texts (3). This course introduces sacred texts and the methods and tools of their study, including translations, historical studies, hermeneutics, and the use of secondary resources. Prerequisite: Religion majors only.

REL 4224 The Prophets and Israel (3). Examines the setting of the prophets in the history of Israel, their contributions to biblical religion, and their use in later religious and renewal movements.

REL 4251 Jesus and Paul (3). Examines the historical settings, teachings, significance, and later interpretations of Christianity's founder and its foremost interpreter.

REL 4311 Religious Classics of Asia (3). Classical religious texts of Asian traditions. Content may vary. Course may be repeated with change in content.

REL 4312 Jews of Asia (3). Surveys the history, culture, and literature of the Jews of Asia, with emphasis on the Cochin Jews, the Bene Israel of Bombay and environs, the 'Baghdadis' of Indian port cities, and the Chinese Jews of Kaifeng.

REL 4340 Pathways to Buddha (3). The course will explore the central themes of the main schools of Buddhism developed in India, Tibet, China, Japan, and Korea. The themes will be examined from religious, historical, and philosophical points of view.

REL 4345 Zen Buddhism (3). This course explores Zen (Ch'an) Buddhism in its historical, theoretical, and practical dimensions with a specific aim of examining the theme that the Buddha mind can be actualized by awakening to one's own Buddha-nature.

REL 4351 Religion and Japanese Culture (3). The impact of the traditional religions, Shinto and Buddhism, on the intellectual and cultural history of Japan, especially litera-
under art, from the ancient and classical through the modern periods.

REL 4370 African Religions (3). Critical analysis of the beliefs, myths, symbols, and rituals of traditional African religion, African Christianity, and African Islam, and exploration of their place and function in African societies.

REL 4420 Contemporary Religious Thought (3). A survey of major figures in contemporary theology for the purpose of understanding their thought and its application to current issues in religion and society.

REL 4425 Contemporary Issues in Christian Theology (3). Examines contemporary efforts to reflect on traditional topics in Christian theology, such as God and human nature, and explores the role of theology in addressing selected social and cultural issues.

REL 4441 Religion and the Contemporary World (3). An examination of reflection by religious thinkers and others who employ religious perspectives, concerning select conceptual issues of critical importance in the contemporary world.

REL 4461 Topics in the Philosophy of Religion (3). Examines a specific topic in the philosophy of religion, such as faith and reason, religious experience, or an important thinker. It may be repeated with permission of the instructor.

REL 4481 Contemporary Latin American Religious Thought (3). The major trends of religious thought in Latin America and their impact on the society of the area will be investigated. Special reference will be made to Post-Vatican II theology and to very recent theological of liberation.

REL 4613 The Modernization of Judaism (3). Explores the ways in which religious beliefs and traditional concepts of Jewish self identity have changed as a result of emancipation and the participation of Jews in the modern Western world.

REL 4910 Independent Research (1-6). Topics will be selected to meet the academic needs of the individual student. Prerequisite: Permission of the instructor.

REL 4912 Research Seminar in Religious Studies (3). Working on a variety of individual research projects, students explore research issues and methods. Research projects must be approved in advance. Course may be repeated. Prerequisite: Permission of the instructor.

REL 4931 Religious Studies Seminar (3). This seminar is designed for majors and other qualified students approved by the Department. The specific topic will be selected and announced in advance. The number of participants will be limited.

REL 4937 Special Topics (3). Indepth study of topics of special interest in religious studies.

REL 4941 Internship Seminar (3). Students work 5 hours a week in religious institutions; complete individualized group readings; write on individual assignments; discuss group readings in context of group experiences.

REL 5023 Religious Ritual (3). Examines the critical relationship of ritual, religious practice and belief, and culture, while introducing the principles and methods of ritual studies. Prerequisite: Graduate standing or permission of the instructor.

REL 5025 Myth and Religion (3). Investigates the role, function, and meaning of myths in religious experience and practice through an examination of specific myths, mythic patterns, and critical theories. Prerequisite: Graduate standing or permission of the instructor.

REL 5122 African-American Religion (3). Survey of development of African-American Religions with emphasis on North American experience during slavery, Jim Crow and contemporary eras. Prerequisite: Graduate standing or permission of the instructor.

REL 5125 Religion and Public Life (3). Examines the relationship of religion and government in the United States, with focus on the First Amendment and issues of separation of church and state. Prerequisite: Graduate standing or permission of the instructor.

REL 5131 Sects, Cults, and New Religions (3). Explores and critically analyzes the multiplicity of new American religious movements and the unique combination of factors that has encouraged them. Prerequisites: Graduate standing or permission of the instructor.

REL 5137 North American Religion (3). Historical examination of religious groups and influences in North America, focusing on their contributions and cultural impact. Prerequisites: Graduate standing or permission of the instructor.

REL 5145 Women and Religion (3). Examines the influence of religion on social construction of gender and the definition of woman's nature and role, with a focus on Western developments. Prerequisite: Graduate standing or permission of the instructor.

REL 5149 Religion, Violence, and Conflict (3). Is religion peaceful or violent? Theoretical analysis of the role of religion in violent, social and political conflicts, such as the Crusades, the Arab-Israeli conflict, and the Haitian Revolution. Prerequisite: Graduate standing or permission of the instructor.

REL 5160 Science and Religion (3). Surveys the interaction between science and religion from conflict models to integration; special attention to specific natural sciences including cosmology and biology. Prerequisite: Graduate standing or permission of the instructor.

REL 5181 Religions and Ethics (3). Investigation of methods, resources for ethics in world religions, and some examples of issues. Prerequisite: Graduate standing or permission of the instructor.

REL 5183 Ethics and Environment (3). A study of cultural and religious sources of contemporary ethical attitudes and values about the environment. Also includes consequences of these for specific environmental issues. Prerequisite: Graduate standing or permission of the instructor.

REL 5184 Sex, Ethics, and Religion (3). Religious treatment of sexual activity, desire and procreation in major religions, with special focus on contemporary scientific research on sexuality and spirituality. Prerequisite: Graduate standing or permission of the instructor.

REL 5192 Seminar in Mysticism (3). The issues of consciousness, language, and morality in mystical tradition of the east and west, including Kabbalah, Neoplatonism, Sufism, Yoga, Taoism,
REL 5208 Studies of the Dead Sea Scrolls (3). Overview of the Dead Sea Scrolls; explores the new techniques being used in their study. Prerequisite: Graduate standing or permission of the instructor.

REL 5211 Bible I: The Hebrew Scriptures (3). Extensive reading in the Hebrew Scriptures; how the various texts of the Hebrew Scriptures came to be written, and how they can be interpreted - both within the context of faith communities and within the cultural contexts out of which the texts were written. Prerequisite: Graduate standing or permission of the instructor.

REL 5222 Hebrew Exegesis I (3). Provides a comprehensive survey of the fundamentals of the language of the Hebrew Bible designed to equip the student for the task of exegesis. Prerequisite: Graduate standing or permission of the instructor.

REL 5233 Hebrew Exegesis II (3). A continuation of Hebrew Exegesis I emphasizing the reading of select passages of the Hebrew Bible to develop skills in translation and interpretation. Prerequisite: REL 5232 and graduate standing.

REL 5240 Bible II: The New Testament (3). History, theology, and interpretation methods of the New Testament. Prerequisite: Graduate standing or permission of the instructor.

REL 5242 New Testament and Qumran (3). Detailed investigation of the possible contacts between the New Testament and Qumran in such areas as Biblical Exegesis, Apocalypticism, Eschatology, and Messiahism. Prerequisite: Graduate standing.

REL 5262 New Testament Greek Exegesis I (3). A detailed overview of the principles of Greek grammar that shows the student how to use Greek in the study of the New Testament. Prerequisite: Graduate standing.

REL 5263 New Testament Greek Exegesis II (3). Careful reading of selected passages of the New Testament and early Christian literature designed or selected to develop skills in translation and interpretation.

Prerequisite: REL 5262 and graduate standing.

REL 5331 Religions of India (3). Topics include: religion in prehistoric and ancient India, classical Hindu texts and schismatic movements, medieval theism, the acculturation of extrinsic religions, Hindu-Muslim-Sikh syncretism, and the modern period. Prerequisite: Graduate standing or permission of the instructor.

REL 5346 Seminar on Buddhism (3). The central doctrines and rituals of the Buddhist tradition, including the views on causality, mindfulness, monasticism, salvation, purity, and ethics in the Theravada, Tantric, and Zen schools. Prerequisite: Graduate standing or permission of the instructor.

REL 5352 Religions of East Asia (3). The history, philosophy, and cultural impact of the major religious traditions of East Asia, including Confucianism, Taoism, Buddhism, Shinto, and syncretic folk religions. Prerequisite: Graduate standing or permission of the instructor.

REL 5372 African Spirituality (3). Intensive investigation of select forms of traditional spirituality in sub-Saharan Africa, including ritual, sacrifice, and spirit possession, and Africanized Christian and Islamic devotion. Prerequisite: Graduate standing or permission of the instructor.

REL 5384 Rasta, Vodou, Santeria (3) Critical, sociological and phenomenological analysis of the history, beliefs, rituals, and social significance of Rastafarianism, Vodou, and Santeria on the Caribbean and the United States. Prerequisite: Graduate standing or permission of the instructor.

REL 5385 Native American Religions (3). An advanced study of Native American religions and the methods employed to investigate them. Attention will be given to traditional and contemporary expressions.

Prerequisites: Graduate standing or permission of the instructor.

REL 5394 Jewish Mystical Texts (3). A study of the major movements and figures in the development of Jewish mysticism through its significant texts, from biblical times up to the present. Prerequisites: Graduate standing or permission of the instructor.

Prerequisite: REL 5262 and graduate standing.

REL 5461 Religion and Philosophy (3). Examines the use of philosophical reasoning to justify religious belief or its rejection. Such topics as natural theology, atheism and fideism will be examined. Prerequisite: Graduate standing or permission of the instructor.

REL 5488 Theology and Liberation Movements (3). Comparison of Latin American, feminist, and African American theologies of liberation, including methods, social analysis, social location, interlocutor, ecclesiology, theology, eschatology and use of scripture. Prerequisite: Graduate standing or permission of the instructor.

REL 5495 Interreligious Dialogue (3). The intellectual basis, the classical formulations, and the contemporary practice of interreligious dialogue in a variety of cultural settings. Prerequisites: Graduate standing or permission of the instructor.

REL 5501 History of Christianity I (3). Christianity from its origins to the Middle Ages. Doctrinal and organizational development of the church and characteristic aspects of its spiritual life. Prerequisite: Graduate standing or permission of the instructor.

REL 5502 Saints, Witches and Missionaries (3). Survey of movements, reforms, divisions, and major ideas within institutional Christianity, 1400 to the present. Prerequisites: Graduate standing or permission of the instructor.

REL 5515 History of Early Christianity (3). Origin and growth of Christianity from the first to the fifth century, and the adaptation of its message to the Greco-Roman world. Prerequisites: Graduate standing or permission of the instructor.

REL 5565 Modern Catholicism (3). Theology and liturgical practice in the Roman Catholic Church from Trent (16th c) to the present, with primary and secondary sources. Prerequisite: Graduate standing or permission of the instructor.

REL 5600 Studies in Judaism (3). Historical overview of Jewish belief and practice, with special consideration of Jewish ritual life. Prerequisites: Graduate standing or permission of the instructor.
REL 5606 Rabbinic Judaism (3). The theology and ideologies of the 1700-year period in the history of Judaism known as Rabbinic Judaism. Prerequisite: Graduate standing or permission of the instructor.

REL 5613 Modernization of Judaism (3). Explores the ways in which religious beliefs and traditional concepts of Jewish self identity have changed as a result of emancipation and the participation of Jews in the modern Western world. Prerequisite: Graduate standing or permission of the instructor.

REL 5614 Ancient Judaism (3). The history, literature and characteristic institutions of Judaism from the Persian period to Amoraic times. Attention given to developments in the land of Israel and the diaspora. Prerequisite: Graduate standing or permission of the instructor.

REL 5615 Medieval Judaism (3). The works of major thinkers in Medieval Judaism, including Maimonides, Nahmanides, Halevi, Luzatto, and such topics as Jewish mysticism (Kabbalah) and Hasidism. Prerequisite: Graduate standing or permission of the instructor.
Bachelor of Arts in Sociology/Anthropology

Degree Program Hours: 120

Lower Division Preparation
To be admitted to the upper division, students must meet the University’s and College’s admission requirements. Students without an AA degree must have the background to handle advanced academic work.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable to the program.

Required Courses
Introduction to Anthropology, Introduction to Cultural Anthropology, or Introduction to Sociology. If the student does not have one of these courses, it will be required as part of the upper division program.

Recommended Courses
Other anthropology and sociology courses; ecology, economics, geography, history, political science, psychology; arts, biology, English, foreign languages, mathematics, philosophy.

Upper Division Program (60)

Required Courses (30)
Core Courses
ANT 3034 Anthropological Theories 3
SYA 3300 Research Methods 4
SYA 4010 Sociological Theories 3
SYG 4972 Senior Capstone Seminar 3

One course from the following: Comparative Sociology (SYO 4550), World Ethnographies, Advanced Research Methods, or Qualitative Research Methods 3

Area Courses: Either Anthropology or Sociology 15
Electives with the approval of the faculty advisor 29

A grade of ‘C’ or higher is required for all courses that make up the major (15 semester hours of core courses and 15 semester hours of area courses in Sociology and Anthropology).
ANT 3034 Anthropological Theories (3). This course examines the process of theory building and explanation in the social sciences, and outlines the historical and philosophical foundations of anthropological thought. Theorists and schools of thought reviewed include Darwin and evolution; Boas and historical particularism; Freud and culture and personality; and Malinowski and functionalism. (F, S)

ANT 3101 Introduction to Archaeology (3). The history of archaeology is traced from its origins to its emergence as a scientific discipline within anthropology. Students are familiarized with the concepts and methods of modern archaeology, and with the scientific goals of archaeological research. (F, S)

ANT 3144 Prehistory of the Americas (3). Early man in the Americas is examined through archaeological records. (S)

ANT 3212 World Ethnographies (3). Introduces students to ethnography, which is the art of writing culture. Teaches students to compare and contrast cultures through ethnographic reading, writing, and critiques. Prerequisites: ANT 2000 (Intro to Anthropology) or SYG 2000 (Intro to Sociology).

ANT 3241 Myth, Ritual, and Mysticism (3). A survey of anthropological approaches to the study of myth, ritual, and mysticism, as religious and symbolic systems. The social and psychological functions of myth and ritual in primitive and complex societies will be compared. (S)

ANT 3255 Peasant Society (3). Comparative study of peasant societies with emphasis on the concepts of folk community, traditional culture, and modernization. Data on peasantry in Latin America and other culture areas will be reviewed.

ANT 3302 Anthropology of Sex and Gender (3). Cross-cultural ethnographic data will be utilized to examine the enculturation of sex roles, attitudes, and behavior; cultural definitions of maleness and femaleness; and varieties of human sexual awareness and response. (F)

ANT 3304 Voices of Third World Women (3). Deals with the literature in the social sciences and humanities written by women of the Third World or others who have recorded their testimony.

ANT 3403 Cultural Ecology (3). Systems of interaction between man and his environment; the role of social, cultural, and psychological factors in the maintenance and disruption of ecosystems; interrelations of technological and environmental changes. (S, S)

ANT 3409 Anthropology of Contemporary American Society (3). The application of classical anthropological methods and concepts to the analysis of contemporary American culture. Investigation of a unique cultural scene will involve the student in field work and the preparation of an ethnographic report. (F, S)

ANT 3442 Urban Anthropology (3). Anthropological study of urbanization and urban life styles, with particular emphasis on rural-urban migration and its impact on kinship groups, voluntary associations, and cultural values.

ANT 3451 Anthropology of Race and Ethnicity (3). The study of selected ethnic and cultural groups, with particular emphasis on patterns of interethnic and intercultural relationships. Minority groups studied may include Afro-Americans, American Indians, Chicanos, Cubans, women, senior citizens, or prisoners. (F, S)

ANT 3462 Medical Anthropology (3). A survey of basic concepts; examination of preliterate and non-western conceptions of physical and mental health and illness; emphasis on cultural systems approach to the study of illness and health care. Background in biology, medicine, or nursing helpful. Prerequisite: Permission of the instructor. (S)

ANT 3476 Movements of Rebellion and Revitalization (3). Cross-cultural study of revolutionary, messianistic, and revitalization movements in tribal and peasant societies. Case materials include Negro-slave revolts, cargo cults, and peasant wars of the twentieth century (Mexico, China, Vietnam).

ANT 3497 Introduction to Qualitative Research Methods (3). Introduction to qualitative data collection, analysis, and documentation. Fieldwork experiences include observation, interviewing, and utilizing non-obtrusive measures. Prerequisites: SYA 3300 (Research Methods) and SYA 4010 (Sociological Theories).

ANT 3500 Introduction to Physical Anthropology (3). A study of the biological history of man as interpreted through the theory of evolution, anatomy and the fossil record, contemporary population genetics, and the concept of race. (F)

ANT 3640 Language and Culture (3). An examination of the relationship between language and culture, the implications of language for our perceptions of reality, and the sociocultural implications of language differences for interethnic relations and international understanding. (F)

ANT 3780 Anthropology of Brazil (3). Anthropological perspective on Brazilian society and culture. Covers classic and contemporary studies of Brazil including such topics as race, ethnicity, national identity, regionalism, and social organization. (S)

ANT 4164 Inca Civilization (3). A survey of Andean culture history with emphasis on Inca and pre-Inca civilizations. Includes discussion of peopling of South America, habitats, and the transition from foraging to village settlements, and the rise of indigenous empires. (S)

ANT 4211 - 4328 Area Studies (3). Ethnological survey of selected indigenous cultures. Areas to be studied include: (1) North America; (2) Africa; (3) Asia or Southeastern Asia; (4) China. Topics may vary. May be repeated for credit with change of topic. (F, S)

ANT 4224 Tribal Art and Aesthetics (3). This course deals with the social and cultural context and functions of art in preliterate societies as in sub-Saharan Africa, New Guinea, and North America. Topics include wood carving, bronze casting, singing, dancing, drumming, masquerading, theatrical performance, and all forms of oral literature. (F)

ANT 4273 Law and Culture (3). A cross-cultural examination of the practical and theoretical relationships between the legal system and other aspects of culture and society. (S)

ANT 4306 The Third World (3). An interdisciplinary, cross-cultural survey
of the factors contributing to the emergence of the Third World. Significant political, economic, pan-national and pan-ethnic coalitions are analyzed. (F)

ANT 4312 American Indian Ethnology (3). An examination of the sociocultural patterns of selected American Indian groups as they existed in the indigenous state, prior to European contact. (F)

ANT 4324 Mexico (3). An interdisciplinary examination of the major social, cultural, economic, and political factors contributing to the transformation from the Aztec empire to colonial society to modern Mexico. (F)

ANT 4328 Maya Civilization (3). A survey of the culture and intellectual achievements of the ancient Maya civilization of Mesoamerica. Course includes: history and social-political structure, archaeology, agriculture and city planning, mathematics, hieroglyphics, astronomy, and calendars. (F,S)

ANT 4330 Contemporary Maya Cultures (3). Studies the Maya cultures of Mexico and Central America from the Conquest to the present. Investigates the political, social, economic, religious, and cultural life of contemporary Maya peoples. (F)

ANT 4332 Latin America (3). Native cultures of Mexico, Central and South America; the lowland hunters and gatherers, and the pre-Columbian Inca and Aztec Empires; the impact of the Spanish conquest. (F)

ANT 4334 Contemporary Latin American Women (3). The lives of 20th century Latin American women and gender analysis along class and ethnic dimensions. Discussion of religion, family, gender roles, machismo, and women's roles in sociopolitical change. (F)

ANT 4340 Cultures of the Caribbean (3). An ethnological survey of native cultures and of the processes of culture contact and conflict in the Caribbean and Circum-Caribbean region. (F)

ANT 4343 Cuban Culture and Society (3). The diverse origins and manifestations of the culture of 20th century Cuba. The social structure of the Cuban Republic and the profound institutional transformations caused by the Revolution of 1959. (S)

ANT 4352 African Peoples and Cultures (3). This course includes a survey of the cultures and civilizations of sub-Saharan Africa. It includes discussions of history, geography, sociopolitical structures, religion, art, music, and oral literature. (F)

ANT 4353 Africa and Africans in Film (3). Analyzes representations of Sub-Saharan Africa and Africans in various cinematic traditions (including documentaries), and examines these representations in socioeconomic and political contexts. Prerequisites: Permission of instructor.

ANT 4390 Explorations in Visual Anthropology (3). An examination of the use of film in anthropology, both as a method of ethnographic documentation and as a research technique for analyzing non-verbal modes of communication. Documentary films and cross-cultural data on paralinguage, kinesics, proxemics, and choreometrics will be reviewed and discussed. (F)

ANT 4397 African Diaspora Cultures and Performativity (3). Examines different approaches adopted by African diaspora scholars in social and cultural anthropology, and recent theoretical texts and debates in Performance Studies. Prerequisites: Permission of Instructor.

ANT 4406 Anthropology of War and Violence (3). The purpose of this course is to introduce the scientific study of human aggression and warfare from an evolutionary and cross-cultural perspective in order to gain a better understanding of the causes and consequences of such behavior, and to evaluate proposed options for the control of warfare. (F)

ANT 4422 Kinship and Social Organization (3). Comparative study of kinship systems and the social organization in tribal, peasant, and industrial societies. Emphasis on the ethnographic record in anthropology. Prerequisites: ANT 2000 or permission of the instructor. (F)

ANT 4433 Psychological Anthropology (3). Cross-cultural studies in cognition, possession states, myth making and world view are examined. The interface of anthropology, psychology and psychiatry is reviewed. (S)

ANT 4461 Hallucigenians and Culture (3). Cross-cultural examination of the political, religious, and sociocultural factors related to altered states of consciousness, including dreams and images. Applications to contemporary psychology are explored. (S)

ANT 4552 Primate Behavior and Ecology (3). This course covers the evolution of primates, and primate ecology, social organization, and intelligence. The course will provide students with opportunities to observe and study living primates. (F)

ANT 4723 Education and Culture (3). A cross-cultural examination of educational and socialization processes, their functions in the larger society, and the value systems they transmit. (F)

ANT 4905 Directed Individual Study (1-2). Supervised readings and/or field research and training. Prerequisite: Permission of the instructor. (F,S,SS)

ANT 4915 Directed Field Research (1-2). Permission of the instructor required. (F,S,SS)

ANT 4930 Topics in Anthropology (3). Special courses dealing with advanced topics in the major anthropological subdisciplines: (1) social and cultural anthropology, (2) applied anthropology, (3) physical anthropology, (4) linguistics, and (5) archaeology. Instruction by staff or visiting specialists. Topics to be announced. Instructor's permission required. May be repeated. (F,S)

ANT 4941 Holocaust Documentation Internship (3). History and significance of the Holocaust; issues in oral history; interviewing Holocaust survivors; transcribing and archiving interview data. (F)

ANT 5318 American Culture and Society (3). Anthropological analysis of the cultures and subcultures of the United States, focusing on the social, ethnic, and regional organizations and their corresponding value and symbolic systems. Prerequisite: Graduate standing or permission of the instructor. (S)

ANT 5XXX Advanced African Diaspora Cultures and Performativity (3). Examines different approaches adopted by African diaspora studies scholars in social and cultural anthropology, and recent theoretical texts and debates in Performance Studies. Prerequisites: Permission of Instructor.

ANT 5XXX Representations of Africa and Africans in Films (3).
Analyzed representations of Sub-Saharan Africa and Africans in various cinematic traditions (including documentaries) and examines these representations in socioeconomic and political contexts. Prerequisite: Permission of Instructor.

ISS 3330 Ethical Issues in Social Science Research (3). An introduction to the problems of possibilities of ethical premises in the perspectives and work of social scientists. Examination of historical interrelationships between moral philosophies and developing scientific methodologies. Analyses of contemporary social ethicists' attempts to assume moral postures while examining social relations. Case studies involving issues such as nation building in areas of accelerated change including Africa and Asia. (F,S)

SYA 3300 Research Methods (4). An introduction to the scientific method and its application to anthropological and sociological research. Topics include: formulation of research problems; research design; field methods and collection of data; hypothesis testing and interpretation of results. (F,S)

SYA 3949 Cooperative Education in Social Sciences (3). A student majoring in one of the Social Sciences (Economics, International Relations, Political Sciences, Sociology, or Psychology) may spend one or two semesters fully employed in industry or government in a capacity relating to the major. Prerequisite: Permission of Cooperative Education Program and major department.

SYA 4010 Sociological Theories (3). Examines the emergence of sociology as the study of social relations. Compares and contrasts the work of selected theorists, with respect to their methodologies, treatment of the emergence and consequences of modern society, political sociology, conception of social class, and analysis of the role of religion in society. The student is expected to gain in-depth knowledge of opposing theories, as well as an appreciation of the contingent nature of sociological theories. (F,S)

SYA 4011 Advanced Social Theory (3). An analysis of various classical and current sociological theories, with particular attention paid to their conceptions of man in society and the wider implications such conceptions have. The theories of Durkheim, Parsons, Weber, Goffman, Bendix, and Dahrendorf are examined.

SYA 4330 Basic Research Design (3). Advanced course in social research, providing research practice for studying patterns of human behavior; analyzing findings of studies, methodical and analytical procedures; reporting and explaining these results; and applying these inferences to concrete situations. Also acquaints the student with the use of computers in research in the behavioral sciences. (F)

SYA 4354 Historical Sociology (3). The authenticity and meaning of historical data for sociological research. Systematic theories in history are analyzed for their utility in sociology. Particular emphasis on the sociological uses of the comparative method in history.

SYA 4450 Advanced Research Methods (3). Advanced topics in sociological research are explored. Focus will be on measurement and analysis issues, although topics related to sampling and data collection are also addressed. Prerequisites: SYA 3300 (Research Methods) and SYA 4010 (Sociological Theory).

SYA 4621 Sociology of the 20th Century (3). An examination of the sociological implications evident in the events of our modern world. Heavy reliance is placed on intellectual materials other than social science, especially literature.

SYA 4905 Directed Individual Study (VAR). Supervised readings and/or field research and training. Prerequisite: Permission of the instructor. (F,S,SS)

SYA 5135 Sociology of Knowledge (3). The study of the theoretical basis of knowledge and the inter-relatedness of knowledge and social factors, particularly as knowledge relates to institutional forms of behavior. (S)

SYA 5909 Directed Individual Study (VAR). Supervised readings and/or field research and training. Prerequisite: Permission of the instructor. (F,S,SS)

SYA 5941 Directed Field Research (VAR). Permission of the instructor required. (F,S,SS)

SYA 3600 Community and Society (3). The social group known as the community is identified and analyzed for its distinctive qualities. By distinguishing it from other social groups, its dominating force on the behavior of its members is isolated. Attention is given to the interaction of individuals and groups as they exist within the community. (S)

SYD 3620 Sociology of Miami (3). Study of Miami and Dade County using sociological and anthropological techniques and theory, fieldwork assignments, readings and guest speakers. (F)

SYD 3810 Sociology of Gender (3). An examination of women's and men's roles, statuses, and life opportunities in society. Consideration of current theories of gender inequality. (S)

SYD 3811 Sociology of Women (3). Examines the nature of the social construction of female gender identity in American society.

SYD 4237 Immigration and Refugees (3). Examines the causes and consequences of immigration and refugee flows. Focuses on sociological and anthropological issues.

SYD 4410 Urban Sociology (3). Study of the urban community, with particular attention to the problems associated with urban life. The development of urban societies is reviewed historically, and factors associated with this development are identified. (F)

SYD 4610 Topics in Sociology (3). Special courses on the social structures and related problems of specific geographical and cultural areas. Topics may vary. May be repeated for credit with change of topics.

SYD 4621 Cubans in the U.S. (3). An overview of Cuban migration to the U.S. and the establishment of Cuban communities in this country. Emphasis on the development and dynamics of the enclave in Miami.

SYD 4630 Latin American and Caribbean Societies (3). Exploration of the types of social structures, statuses, and roles, and the resulting distributions of power and authority in the hemisphere.

SYD 4700 Sociology of Minorities/Race and Ethnic Relations (3). The study of social groups identified by racial or ethnic characteristics. Particular emphasis is given to the role of minorities in society, and the interactive process resulting from their contact with the majority. Social
behaviors of minorities are reviewed and related to institutional structures and their accepted norms. (F,S)

SYD 4704 Seminar in Ethnicity (3). An upper-level seminar, stressing a comparative sociological approach to the study of two or more racial-ethnic groups. Emphasis on the interrelations of ethnic communities within the same society and the socio-political effects of these interrelations. Prerequisite: SYD 4700 or permission of the instructor. (S)

SYD 4801 Sociological Theories of Gender (3). Examines theories of gender in classical and contemporary sociological theory. Prerequisites: SYD 4010 or permission of the instructor.

SYD 4802 Sociology of Sexual Minorities (3). Social construction and development of sexual and gender identities in Western societies and cross-culturally. Topics include various contemporary social issues regarding sexuality and minority status.

SYD 4820 Sociology of Men (3). Examines the nature of the social construction of male gender identity in American society. (F)

SYD 5045 Population and Society (3). The study of the processes that determine the size and composition of human populations. Emphasis on demographic transition theory and the antecedents and consequences of differential growth rates throughout the world.

SYG 2000 Introduction to Sociology (3). This course introduces the sociological perspective and method, and the basic areas of sociological interest such as socialization, sex roles, social groups, race and ethnic relations, deviance and social control, social stratification, and urban life. (F,S,SS)

SYG 2010 Social Problems (3). An introduction to the concept of a social problem and the approaches used to understand more fully the total dimensions of some specific problems. Special emphasis is given to clarifying one's understanding of the underlying nature of selected social problems, an analysis of those aspects amenable to remedy, and an inventory of the knowledge and skills available. (F,S,SS)

SYG 3002 Basic Ideas of Sociology (3). The course introduces the student to the ideas of community, authority, status, alienation, and the sacred, as used in sociological literature. (F,S,SS)

SYG 3320 Social Deviancy (Deviant Behavior) (3). The study of behavior that counters the culturally accepted norms or regularities. The social implications of deviancy are reviewed, and theoretical formulations regarding deviant behavior are analyzed. (S,SS)

SYG 4003 Sociology through Film (3). Popular and documentary films as data for the analysis of various sociological problems. (F)

SYG 4060 Sociology of Sexuality (3). Applies sociological perspectives to sexual attitudes and behavior, examining various world cultures. Topics include premarital and extramarital sex, sexual orientation, and prostitution. (F,S)

SYG 4972 Senior Capstone Seminar (3). Synthesizes and builds upon the major curriculum's components of inquiry, literacy, and in-depth study. Students write a research paper and present it orally to a departmental forum. Satisfies SACS requirements in oral and computer competency.

SYO 3120 Marriage and the Family (3). An introduction to the intensive study of the kinship relationship of man known as family. The family is distinguished from other special units, and behavior variations of this special unit are analyzed and associated with special functions. Contemporary manifestations of the family and the dynamic changes indicated are considered. (F,S,SS)

SYO 3250 School and Society (3). A specialized course dealing with the place of schools (particularly public) in society, the import of social criteria for school personnel, and the influence of such criteria on educational processes within the school system (institution). (F)

SYO 3400 Medical Sociology (3). An introductory overview of the social facets of health, disease, illness, and the organization/delivery of medical care and health care. (F,S)

SYO 3401 Sociology of Health Behavior (3). Provides a sociological perspective on health behavior. Topics include health as a social construct; personal, familial, and social/cultural determinants of health behavior; and health care delivery.

SYO 3546 Sociology of Groups and Organizations (3). Introduction to the study of groups and organizations from a sociological perspective.

SYO 4130 Comparative Family Systems (3). The study of family organization and function in selected major world cultures. Emphasis is given to the inter-relationships of the family, the economic system, urbanization, and human development.

SYO 4200 Sociology of Religions and Cults (3). The study of religion's institutions, their structure and function in various societies. Leadership qualities, participation, and practices, and the relationship of religious institutions to other social institutions are studied. (F)

SYO 4300 Political Sociology (3). The underlying social conditions of political order, political process, and political behavior are explored. Examples are drawn from empirical and theoretical studies of power, elites, social class and socialization. (S,SS)

SYO 4360 Work and Society (3). Concentrated study of industrialization and the sociological theory involved. Manpower, unemployment, apprentice programs, and classificatory schemes are studied. (F)

SYO 4410 Sociology of Mental Illness (3). Contemporary issues in mental health and illness from a sociological perspective. Includes differential prevalence, health, and illness behaviors, organization of care, social policy, and social control. (F)

SYO 4420 Comparative Sociology of Health Care Systems (3). Health care policies, organization, and systems from a cross-national perspective, focusing on issues such as access, insurance, corporation, and spiraling costs. (S)

SYO 4530 Social Inequality (3). The study of society structured hierarchically with particular attention to the form and content of the various levels. Problems in the social order and differential human behaviors associated with stratification are analyzed. (S)

SYO 4550 Comparative Sociology (3). A cross-cultural and cross-national survey of sociological studies, with particular emphasis on theoretical and methodological issues. Examples will be drawn from studies on culture patterns, social structures, sexual
more, power relationships and the ethical implications of cross-national research.

SYO 4571 Organizations and Society (3). The course deals with the micro-sociological problems of the internal organization of bureaucracies; the relation between bureaucracy and personality; the macro-sociological problems of the emergence of the bureaucratic form; bureaucratization and contemporary life; general problems of affluence; meaningless activity; ways to beat the bureaucracy; and bureaucracy and atrocity. (S)

SYO 3000 The Individual in Society (3). Introduction to the study of the individual as a social being, with particular emphasis on man's social origins, human perceptions, and the interaction of the individual and the group within society. (F)

SYO 3300 Social Movements (3). The study of human behavior as found in relatively unstructured forms, such as crowds, riots, revivals, public opinion, social movements and fads. The interplay of such behavior and the rise of new norms and values is analyzed. (S)

SYO 3400 Social Change (3). The study of major shifts in focus for societies or culture, and the indicators associated with such changes. Particular attention is given to the development of industrial societies and the dynamics involved for nations emerging from various stages of underdevelopment. (S)

SYO 3520 Criminology (3). An introduction to the study of criminal behavior, its evidence in society, society's reaction to the subjects involved, and the current state of theoretical thought on causality and treatment. (F)

SYO 3530 Delinquency (3). An analysis of behavior which is extralegal, with major concentration on its appearance among young people (juveniles) and society's response. Particular emphasis is given to the dynamic thrusts being made in establishing juvenile rights as a distinct part of human or civil rights. (S)

SYO 3750 Sociology of Life Course (3). Introduction to the study of the life course from a sociological perspective. Life stages (birth to death) are examined as social constructions.

SYO 4321 Mass Culture (3). Analysis of the social, political, and cultural impact of mass communications. (S)

SYO 4410 Social Conflict (3). The study of conflict in society and its place in social relationships. A study of causes and resolutions, with particular emphasis on methods of resolution and their influence on social change. (F)

SYO 4421 Technology and Society (3). The study of contemporary society, man's role in it, and effects of technological change. A study of interrelationships, with special attention given to vocational study and instruction within the framework of the relationships perceived. (S)

SYO 4441 Sociology of World Development (3). An examination of the various theories concerning what is happening in the 'under-developed world.' The political, social, and economic events of these societies are subjected to sociological analysis.

SYO 4454 Globalization and Society (3). Examines dimensions of world debates about globalization and society, with emphasis on Asian/Latin American comparisons as well as interactions in global perspective. Prerequisite: ANT 2000 or SYG 2000.

SYO 4460 Sociology of Disasters (3). Study of human response to disaster events, including political and economic factors influencing vulnerability. Examines how individuals and institutions make decisions at all levels of disaster response.

SYO 4562 Domestic Violence (3). Applies sociological perspectives to the topic of domestic violence. Analyzes cultural roots and social structures that promote and reinforce violence in intimate relationships. Prerequisites: SYG 2000 or ANT 2000. (F)

SYO 4600 Sociology of Art and Literature (3). This course approaches the question of art and society through an analysis of: the social production of art; the relationship between imagination and society; the role of the artist; and the ideological impact of aesthetic theory.

SYO 4601 Symbols and Society (3). An analysis of the effect of culture on the individual and on society. The roles of popular and intellectual culture will be examined.

SYO 4730 Sociology of Aging (3). The social impact of aging on individual and group interaction patterns, particularly in the areas of retirement, family relations, community participation, and social services. Explores the major sociological theories of aging in light of current research. (F)
Statistics

Jie Mi, Professor and Chairperson
Carlos W. Brain, Associate Professor and Graduate Program Director
Ling Chen, Associate Professor
Zhenmin Chen, Associate Professor
Gauri L. Ghal, Associate Professor
Ramon Gomez, Instructor
Sneha Gulati, Associate Professor
Ina Parks Howell, Lecturer
Golam Kibria, Assistant Professor
Laura Reisert, Instructor
Samuel S. Shapiro, Professor
Hassan Zahedi-Jasbi, Associate Professor
Jyoti N. Zalkikar, Associate Professor

Bachelor of Science in
Statistics

Degree Program Hours: 120

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Common Prerequisites
MAC 2311  Calculus I
MAC 2312  Calculus II
COP 2210  Programming I
or COP 2400  Assembly Language Programming
or CGS 2423  C for Engineers

One of the following:
BSC 1010  General Biology I
BSC 1010L  General Biology Lab I
BSC 1011  General Biology II
BSC 1011L  General Biology Lab II
BSC 2023  Human Biology
BSC 2023L  Human Biology Lab
CHM 1032  Chemistry & Society Lab
CHM 1032L  Chemistry & Society Lab
CHM 1033  Survey of Chemistry
CHM 1033L  Survey of Chemistry Lab
CHM 1045  General Chemistry I
CHM 1045L  General Chemistry Lab I
CHM 1046  General Chemistry II
CHM 1046L  General Chemistry Lab II
PHY 2048  Physics with Calculus I
PHY 2048L  General Physics Lab I
PHY 2049  Physics with Calculus II
PHY 2049L  General Physics Lab II

Courses required for the degree:
MAC 2313  Multivariable Calculus
MAS 3105  Linear Algebra

Upper Division Program
Required Courses: (33)

STA 3165  Statistical Methods I 3
STA 3164  Statistical Methods II 3
STA 3951  Oral Presentations in Statistics 0
STA 4321  Introduction to Mathematical Statistics I 3
STA 4322  Introduction to Mathematical Statistics II 3
STA 4202  Introduction to Design of Experiments 3
STA 4234  Introduction to Regression Analysis 3
STA 4664  Statistical Quality Control 3
ENC 3211  Report & Technical Writing 3

Six additional credit hours of approved statistics courses

Three additional credit hours in an approved statistics, mathematics, or computer science course

A grade of 'C' or higher in each of these courses is necessary for the major.

Electives

The balance of the 120 semester hour requirement for graduation may be chosen from any courses in the University approved by the student's advisor.

Remarks: The student must consult his or her advisor to determine which courses, in addition to the required courses listed above, satisfy the requirements for a statistics major. The following courses are not acceptable for credit toward graduation, unless a student has passed the course before declaring a statistics major: MAC 2233, STA 1013, STA 2023, STA 3033, STA 3111, STA 3112, STA 2122, STA 3123, STA 3145 and QMB 3200 (College of Business Administration).

Minor in Statistics

Lower or Upper Division Preparation: (3 or 4)

STA 3111  Statistics I 4
or STA 2122  Introduction to Statistics I 3
or STA 2023  Statistics for Business and Economics 3
or MAC 2312  Calculus II 4

Upper Division Program: (12)
Required Courses

STA 3163  Statistical Methods I 3
STA 3164  Statistical Methods II 3

Two additional courses from the following list:

STA 3033  Introduction to Probability and Statistics for CS 3
STA 4321  Introduction to Mathematical Statistics I 3
STA 4322  Introduction to Mathematical Statistics II 3
STA 4202  Introduction to Design of Experiments 3
STA 4234  Introduction to Regression Analysis 3
STA 4502  Introduction to Nonparametric Methods 3
STA 4664  Statistical Quality Control 3

1STA 4321 has MAC 2313 as a prerequisite.

A grade of 'C' or higher in each of these courses is necessary for the minor.

Remarks: No courses in statistics, mathematics or computer sciences can be applied to more than one minor in these disciplines, nor can courses used to satisfy major requirements be used towards minor requirements. In the case where a course is required for both a major in one area and a minor in another, the student should see his or her advisor for an appropriate substitution for the requirement of the minor.

Certificate Program in
Actuarial Studies

See section on certificate programs under College of Arts and Sciences.

Course Description

Definition of Prefixes
MAP = Mathematics, Applied; STA = Statistics.

MAP 5117  Mathematical and Statistical Modeling (3). Study of ecological, probabilistic, and various statistical models. Prerequisites: MAC 2313, COP 2210, MAS 3105; and STA 4322 or STA 3164 or STA 3033.

STA 1013  Statistics for Social Sciences (3). This is an elementary course in statistics, covering graphical and numerical condensation of data as well as the most basic parametric and non-parametric methods. Emphasis is placed on the interpretation of
statistical results, rather than on ways to analyze experimental data. Prerequisite: MAC 2147 or MGF 1106.

STA 1061 Introduction to SPSSX for Data Analysis (I). Data coding and entry for use on the mainframe. How to input data, create variables, select subsets of data. Use procedures such as: LIST, FREQUENCIES, CROSSTABS, DESCRIPTIVES, MEANS and CORRELATIONS. Prerequisite: Basic Statistics, DCL and EDT.

STA 1062 Introduction to SAS for Data Analysis (I). Data coding for entry use on the mainframe. SAS Data step to input data, create variables, select subsets of data, PROCs such as: PRINT, FORMAT, MEANS, FREQ, SUMMARY, TEST, CORR, UNIVARIATE and PLOT. Prerequisite: Basic statistics, DCL and EDT.

STA 2023 Statistics for Business and Economics (3). Starting with an introduction to probability, the course provides an introduction to statistical techniques used in management science. It includes descriptive statistics, probability distributions, estimation and testing of hypotheses. Subsequent credit for STA 2122 or STA 3111 will not be granted. Prerequisites: MAC 2147 or MGF 1106. (F,S,SS)

STA 2122 Introduction to Statistics (I) (3). A course in descriptive and inferential statistics. Topics include: probability distribution of discrete and continuous random variables. Sampling distributions. Large sample estimation and hypothesis testing for means and proportions. Prerequisites: MAC 2147 or MGF 1106. (F,S,SS)

STA 3033 Introduction to Probability and Statistics for CS (3). Basic probability laws, probability distributions, basic sampling theory, point and interval estimation, tests of hypotheses, regression and correlation. Minotab will be used in the course. Prerequisite: MAC 2312. (F,S,SS)

STA 3060L Statistics Laboratory (1). A laboratory course designed to illustrate important statistical concepts through experiments. Data are analyzed using statistical software packages. Prerequisite or Corequisite: A statistics course.

STA 3111 Statistics I (4). Descriptive statistics, frequency distributions, probability distributions, point and interval estimation, hypothesis testing, one-way analysis of variance, correlation. Subsequent credit for STA 2122 or STA 2023 will not be granted. Prerequisite: MAC 2147 or MGF 1106 or Junior standing. (F,S,SS)

STA 3112 Statistics II (2). Analysis of variance, nonparametric methods, linear regression, analysis of categorical data. Computer software will be used. Subsequent credit for STA 3123 will not be granted. Prerequisite: STA 3111. (F,S,SS)

STA 3123 Introduction to Statistics II (4). Small sample statistical inference for means and variances. T, chi-square and F distributions. Analysis of variance, regression, correlation, basic nonparametric tests, goodness of fit tests and tests of independence. Prerequisites: STA 2122 or equivalent. (F,S,SS)

STA 3145 Statistics for the Health Professions (3). Statistical analysis with applications in the health sciences. Binomial and normal distributions. Inferences about means and proportions. Regression, correlation, goodness of fit tests. Prerequisites: MAC 2147 or MGF 1106 or Junior standing. (F,S,SS)

STA 3163-STA 3164 Statistical Methods I and II (3-3). This course presents tools for the analysis of data. Specific topics include: use of normal distribution, tests of means, variances and proportions; the analysis of variance and covariance (including contrasts and components of variance models), regression, correlation, sequential analysis, and non-parametric analysis. Prerequisite: MAC 2312 or a course in statistics. (F,S)

STA 3905 Independent Study (1-6). Individual conferences, assigned readings, and reports on independent investigations.

STA 3930 Special Topics (1-6). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

STA 3949 Cooperative Education in Statistics (1-3). One semester of either part-time or full-time work in an outside organization. Limited to students admitted to the Co-op program. A written report and supervisor evaluation are required of each student. Prerequisite: 2 courses in statistics and permission of Chairperson.

STA 3951 Oral Presentations in Statistics (0). Students are required to communicate orally all stages of a simple statistical analysis through a formal presentation in front of a group of faculty and students. Prerequisites: ENC 3211 and STA 3164 or equivalent. (F,S,SS)

STA 4102 Introduction to Statistical Computing (3). Data manipulation and statistical procedures using popular software, simulation, and statistical algorithms. Prerequisites: STA 3164 or STA 3123 or STA 3112, and COP 2210.

STA 4173-HSC 4510 Statistical Applications in Health Care (3). A course in descriptive and inferential statistics for the Health Services. Topics include probability distributions, point and interval estimation, hypothesis testing, regression and correlation, and contingency table analysis. Prerequisite: STA 1013 or equivalent college mathematics course.

STA 4182 Statistical Models (3). This is a specialized course in the use of statistical models to represent physical and social phenomena. The emphasis is on providing tools which will allow a researcher or analyst to gain some insight into phenomena being studied. An introductory knowledge of probability theory and random variables is assumed. Specific topics include: introduction to discrete and continuous probability distributions, transformation of variables, approximation of data by empirical distributions, central limit theorem, propagation of moments, Monte Carlo simulation, probability plotting, testing distributional assumptions. Prerequisites: STA 3033 or STA 4321.

STA 4202 Introduction to Design of Experiments (3). Completely randomized, randomized block, Latin square, factorial, nested and related designs. Multiple comparisons. Credit will not be given for both STA 4202 and STA 5206. Prerequisite: STA 4322 or STA 3164 or STA 3033 or (STA 3163 and STA 4321).

STA 4321-STA 4322 Introduction to Mathematical Statistics I and II (3-3). This course presents an introduction to the mathematics underlying the concepts of statistical analysis. It is based on solid grounding in probability theory, and requires a knowledge of single and multivariable calculus. Specific topics include the
following: basic probability concepts, random variables, probability densities, expectations, moment generating functions, sampling distributions, decision theory, estimation, hypothesis testing (parametric and non-parametric), regression, analysis of variance, and design of experiments. Prerequisite: MAC 2313. (F,S)

STA 4234 Introduction to Regression Analysis (3). Multiple and polynomial regression, residual analysis, model identification and other related topics. Credit will not be given for both STA 4234 and STA 5236. Prerequisite: STA 3164 or STA 3123 or STA 3112.

STA 4502 Introduction to Non-parametric Methods (3). Sign, Mann-Whitney U, Wilcoxon signed rank, Kruskal-Wallis, Friedman, and other distribution-free tests. Rank correlation, contingency tables and other related topics. Credit for both STA 4502 and STA 5507 will not be granted. Prerequisite: First course in statistics.

STA 4664 Statistical Quality Control (3). This course presents the simple but powerful statistical techniques employed by industry to improve product quality and to reduce the cost of scrap. The course includes the use and construction of control charts (means, percentages, number defectives, ranges) and acceptance sampling plans (single and double). Standard sampling techniques such as MIL STD plans will be reviewed. Prerequisite: Introductory course in statistics.

STA 4905 Independent Study (1-6). Individual conferences, assigned readings, and reports on independent investigations.

STA 4930 Special Topics (1-6). Designed to give students an opportunity to pursue special studies not otherwise offered. May be repeated.

STA 4949 Cooperative Education in Statistics (1-3). One semester of either part-time or full-time work, in an outside organization. Limited to students admitted to the Co-op Program. A written report and supervisor evaluation are required of each student. Prerequisite: STA 4322, STA 3164 and permission of Chairperson.

STA 5105L SPSS Data Analysis Lab (1). Topics include: Entering data from various sources, data checking, descriptive statistics, graphing data, crosstabulations, t-tests, correlation and regression, ANOVA, and reliability. Prerequisite: A statistics course or concurrent enrollment in a statistics course, and graduate standing or permission of the instructor. (F,S,SS)

STA 5106 Intermediate Statistics I (3). Power, measures of assoc., measurement, ANOVA: one-way and factorial, between and within subjects expected mean squares, planned comparisons, a-priori contrasts, fixed, random, mixed models. This course may be of particular interest to behavioral sciences. Prerequisites: STA 3111 and graduate standing. (F)

STA 5107 Intermediate Statistics II (3). Correlation and regression both simple and multiple, general linear model, analysis of covariance, analysis of nominal data, analysis of categorical data. This course may be of particular interest to behavioral sciences. Prerequisite: Permission of the instructor. (S)


STA 5206 Design of Experiments I (3). Design and analysis of completely randomized, randomized block, Latin square, factorial, nested and related experiments. Multiple comparisons. Credit for both STA 4202 and STA 5206 will not be granted. Prerequisite: STA 4322 or STA 3164 or STA 3033 or (STA 3163 and STA 4321).

STA 5207 Topics in Design of Experiments (3). This applied course in design of experiments covers topics such as split-plot design, confounding, fractional replication, incomplete block designs, and response surface designs. Prerequisite: STA 5206.

STA 5236 Regression Analysis (3). Simple, multiple and polynomial regression, analysis of residuals, model building and other related topics. Credit for both STA 4234 and STA 5236 will not be granted. Prerequisites: STA 3164 or STA 3123 or STA 3112, or STA 6167.

STA 5446-STA 5447 Probability Theory I and II (3-3). This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 2313.

STA 5507 Nonparametric Methods (3). Distribution-free tests: sign, Mann-Whitney U, Wilcoxon signed rank, Kruskal-Wallis, Friedman, etc. Rank correlation, contingency tables and other related topics. Credit for both STA 4502 and STA 5507 will not be granted. Prerequisite: First course in statistics.

STA 5666 Advanced Statistical Quality Control (3). Review of statistical methods useful in quality improvement. Statistical process control. Taguchi’s and Deming’s philosophies. Control charts. Process capability analysis. Acceptance sampling plans. Prerequisites: STA 3033 or STA 3163 or STA 4321 or equivalent.

STA 5676 Reliability Engineering (3). The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.); tests of hypotheses of failure rates; prediction of component reliability; system reliability prediction; and reliability apportionment. Prerequisite: STA 4322.

STA 5800 Stochastic Processes for Engineers (3). Probability and conditional probability distributions of a random variable, bivariate probability distributions, multiple random variables, stationary processes, Poisson and normal processes. Prerequisites: STA 3033, MAC 2313, MAP 2302.

STA 5826 Stochastic Processes (3). This course is intended to provide the student with the basic concepts of stochastic processes, and the use of such techniques in the analysis of systems. Subjects include: Markov Processes, queuing theory, renewal processes, birth and death processes, Poisson and Normal processes. Applications to system reliability analysis, behavioral science, and
natural sciences will be stressed.
Prerequisite: STA 5447.

STA 5906 Independent Study (1-6).
Individual conferences, assigned reading, and reports on independent investigation.
Theatre and Dance

Leroy Clark, Professor and Chair
Elizabeth Bergman, Affiliate Professor
Joanne Brown, Instructor
Phillip Church, Associate Professor
Elaine Cichon, Instructor
Abel Cornejo, Assistant Professor
Thomas Hagood, Associate Professor, Director of Dance
Ellen Karsh, Instructor
Gary Lund, Instructor
Leslie Neal, Associate Professor
Wayne Robinson, Associate Professor
Brian Schriner, Instructor and Director of Forensics
Andrea Seidel, Associate Professor
Marilyn Skow, Associate Professor
Leslie Ann Timlick, Associate Professor
Therald Todd, Associate Professor
Kathleen Watson, Visiting Instructor

Theatre Program

The goal of the theatre program is to provide intensive theatre training through classes and productions conducted with professional theatre discipline and the highest possible aesthetic standards. In addition to completion of course work, theatre majors are required to participate in all of the major productions presented while the student is enrolled in the Theatre Program.

Students will complete the core courses and select a specialization in either Acting or Production.

The degree requirements represent a four year program. Upper division transfers must have their lower division preparation evaluated by the department and will be advised accordingly.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program. An audition and/or interview is required of all students entering the program.

Students for whom English is a second language must have a minimum TOEFL score of at least 550 plus an interview with department personnel to determine adequacy of English writing and speaking skills for the major.

Bachelor of Arts in Theatre

Degree Program Hours (120)
The 1020 Introduction to Theatre For Majors

THE 4110 Theatre History I 3
THE 4111 Theatre History II 3
THE 4370 Modern Dramatic Literature 3
THE 4972 Senior Thesis 1
TPA 2010 Introduction to Scenic and Lighting Design 3
TPA 2210 Stage Craft I 3
TPA 2248 Stage Makeup 3
TPA 2290L Technical Theatre Lab I 1
TPA 2291L Technical Theatre Lab II 1
TPA 2292L Technical Theatre Lab III 1
TPA 3230 Stage Costuming 3
TPA 3293L Technical Theatre Lab IV 1
TPP 1110 Acting I 2
TPP 2111 Acting II 2
TPP 2112 Acting III 3
TPP 2510 Theatre Movement I 2
TPP 2710 Theatre Voice & Speech I 2
TPP 3650 Playscript Analysis 3
TPP 4400 Stage and Theatre Management 3
TPP 2001L Production Participation 0
The student must also take a Dramatic Literature Course from the English or Modern Language Departments, as approved by an Advisor 3

Choose 12 credits from these Electives:
TPP 3113 Acting IV 3
TPP 3511 Theatre Movement II 2
TPP 3711 Theatre Voice and Speech II 2
TPP 4600 Playwriting I 3
TPP 4601 Playwriting II 3
TPP 3310 Directing I 3
THE 4950 Internship 3
TPA 3061 Approaches to Design for the Stage 3
TPA 2211 Stage Craft II 3
TPA 2220 Stage Lighting I 3
TPA 3060 Scenic Design I 3
TPA 3930 Special Topics in Theatre 1-3
THE 4916 Research 1

Bachelor of Fine Arts in Theatre

Degree Program Hours: 128
Performance Specialization (81)
The 1020 Introduction to Theatre For Majors 3
TPA 2010 Introduction to Scenic and Lighting Design 3
TPA 2210 Stage Craft I 3
TPA 2248 Stage Makeup 3
TPA 2290L Technical Theatre Lab I 1
TPA 2291L Technical Theatre Lab II 1
TPP 2292L Technical Theatre Lab III 1
TPP 3061 Approaches to Design for the Stage 3
TPP 3230 Stage Costuming 3

Undergraduate Catalog

TPA 2292L Technical Theatre Lab II 1
TPA 3230 Stage Costuming 3
TPP 1110 Acting I 2
TPP 2111 Acting II 2
TPP 2112 Acting III 3
TPP 2510 Theatre Movement I 2
TPP 2710 Theatre Voice & Speech I 2
TPP 3310 Directing I 3
TPP 3511 Theatre Movement II 2
TPP 3650 Playscript Analysis 3
TPP 3711 Theatre Voice and Speech II 2
TPP 4114 Acting V 3
TPP 4195L Upper Division Production and Performance (May be repeated a maximum of 3 times) 1
TPP 2190L Production and Performance 1
TPP 4xxx Acting VI 3
TPP 4xxx Acting VII 3
TPP 4xxx Acting VIII 3
MUN 2320 Women's Chorus 1
MUN 2330 Men's Chorus 1

Design Specialization (47)
The 1020 Introduction to Theatre For Majors 3
TPA 2210 Stage Craft I 3
TPA 2248 Stage Makeup 3
TPA 2290L Technical Theatre Lab I 1
TPA 2291L Technical Theatre Lab II 1
TPP 2292L Technical Theatre Lab III 1
TPP 3061 Approaches to Design for the Stage 3
TPP 3230 Stage Costuming 3

THE 1020 Introduction to Theatre For Majors 3
TPA 2210 Stage Craft I 3
TPA 2248 Stage Makeup 3
TPA 2290L Technical Theatre Lab I 1
TPA 2291L Technical Theatre Lab II 1
TPP 2292L Technical Theatre Lab III 1
TPP 3061 Approaches to Design for the Stage 3
TPP 3230 Stage Costuming 3
Scenery Specialization (38)

- **TPA 2051** Art History Survey II 3
- **TPA 3060** Scenic Design I 3
- **TPA 3071** Stage Rendering 3
- **TPA 3930** Special Topics in Technical Production: Drafting 3
- **TPA 4061** Scenic Design II 3
- **THE 4916** Research: Portfolio 2
- **THE 4950** Internship 6
- **TPP 3296** Advanced Technical Project I 2
- **TPP 4297** Advanced Technical Project II 2
- **TPP 4298** Advanced Technical Project III 2

Two elective courses from the following, as approved by an advisor:

- **ARH 2050** Art History I 3
- **ART 1202** 2D Design 3
- **ART 1203** 3D Design 3
- **ART 3930** Special Topics in Technical Production: Drafting 3
- **ART 3931** Figure Drawing 3
- **ART 3820** Visual Thinking 3
- **ART 3830** Color Theory 3

Bachelor of Arts in Dance

**Degree Program Hours: 120**

The philosophy of the dance program is to provide the highest standards of academic and technical training while fostering individual creativity, intellectual growth and humanistic ideals to meet the challenges of the 21st Century in a multicultural society. The program is designed to link knowledge within the diverse genres of the discipline, across disciplines, and across cultures. An innovative curriculum offers interdisciplinary courses that link academic theory, studio cluster courses, and culturally diverse studio courses.

All students must complete the required core courses in dance and select a focus area of emphasis in Latin-American and Caribbean, Performance/Choreography, Dance Education, or a specifically designed focus with advisor's approval.

Students interested in majoring in dance and who meet the admission requirements of the University must take an audition class to be considered for admission as an intended major. An intermediate proficiency is required in one or more dance techniques to be fully admitted as a dance major. DAA 2611 and DAA 3614 may not be fulfilled with transfer credit. Students are evaluated during the first week of classes each term to determine appropriate technique level. In addition, all students applying for acceptance into the major must have met all lower division requirements including CLAST.

INDAM - Intercultural Dance and Music Institute is based at the University Park Campus.

**Required Courses:**

**Studio Technique (30 credits)**

Students need to be enrolled in a DAA dance studio course each semester. These 30 credits must include a minimum of 10 credits each of modern dance, ballet, and either an African Diaspora genre, or an additional non-Euro/US genre. Placement at appropriate level to be based on individual student proficiency and determined by dance faculty.

Choose a minimum of 10 credits from the following: (courses may be repeated for credit)

- DAA 1200 Ballet Techniques I 2
- DAA 1201 Ballet Techniques I-2 2
- DAA 2204 Ballet Techniques II 2
- DAA 2205 Ballet Techniques II-2 2
- DAA 3208 Ballet Techniques III 3
- DAA 3209 Ballet Techniques III-2 3
- DAA 4210 Ballet Techniques IV 3
- DAA 4211 Ballet Techniques IV-2 3

Choose a minimum of 10 credits from the following: (courses may be repeated for credit)

- DAA 1100 Modern Dance Techniques I 2
- DAA 1101 Modern Dance Techniques I-2 2
- DAA 2104 Modern Dance Techniques II 2
- DAA 2105 Modern Dance Techniques II-2 2
- DAA 3108 Modern Dance Techniques III 3
- DAA 3109 Modern Dance Techniques III-2 3
- DAA 4110 Modern Dance Techniques IV 3
- DAA 4111 Modern Dance Techniques IV-2 3

Choose a minimum of 10 credits from the following: (courses may be repeated for credit)

- DAA 2333 Afro-Cuban Dance 2
- DAA 3346 Haitian Dance 3
- DAA 2332 Capoeira Afro-Brazilian 2
- DAA 3347 West African Dance 3
- DAA 3344 African & African Diaspora Dance 3

**Additional Requirements:**

- **DAN 1600** Music for Dance 2
- **DAA 2610** Dance Composition I 2
- **DAA 2611** Dance Composition II 2
- **DAN 1400** Movement Analysis 2
- **DAA 3614** Dance Composition III 3
DAA 3654 Dance Repertory 2
DAE 3385 Building Community Through the Arts 3
DAN 4940 Field Experience in Dance 3
SSI 4xxx The Cultural Body in America: Critical Issues in Intercultural Understanding 3

A total of 4 credits from:
DAN 2500 Dance Production I 2
or
TPA 2200 Intro to Tech Production 2
and
DAN 2580 Production Practicum I 1
and
DAN 3584 Production Practicum II 1

Team-taught, Interdisciplinary Theory and Studio Cluster Courses (12 credits)
DAN 4136 Global Perspectives in Dance and Culture I: Theory 3
DAA 4012 Global Perspectives in Dance and Culture I: Practicum 3
DAN 4137 Global Perspectives in Dance and Culture II: Theory 3
DAA 4013 Global Perspectives in Dance and Culture II: Practicum 3

Dance Focus Elective Areas (15 credits)
With the dance faculty advisor's approval the student will select electives which will prepare him/her for a career in a dance related field. The electives will constitute a specialization in the selected area. Additional credits may be necessary, depending on the nature of the specialization. Each student will receive individual advisement on focus area requirements.

Latin American and Caribbean Focus
Select two elective courses (6 credits) from the following and/or a substitute course with advisor's approval.

DAN 5399 Dance Ethnology 3
SSI 4xxx Cultural Expressions of Latin America and the Caribbean 3
or
DAN 3394 Latin American and Caribbean Dance and Culture (Summer Institute) 3
with
DAA 3684 Dance Practicum 1

Select three elective courses (9 credits) from the following and/or a substitute course with advisor’s approval.
ANT 4340 Cultures of the Caribbean 3
ANT 4211 African Diaspora Cultures and Performativity 3
REL 5xxx Caribbean Religion 3

Performance/Choreography Focus
Select two elective courses (6 credits) from the following and/or a substitute course with advisor's approval.

DAA 3654 Dance Repertory III 2
DAA 4615 Dance Composition IV 3
DAA 3684 Dance Practicum 1
DAN 5399 Dance Ethnology 3
DAN 4910 Research 1-5

Select three elective courses (9 credits) from the following and/or a substitute course with advisor's approval.

TPA 3040 Costume Design 3
TPA 3060 Scenic Design 3
ANT 4211 African Diaspora Cultures and Performativity 3
ART 3809 Performance Art 3
REL 3091 The Power of Myth 3

Dance Education/Certification Focus
17 credits required:
DAN 5399 Dance Ethnology 3
(or a substitute course with advisor's approval)
DAE 3571 Dance in the Elementary and Middle Schools 3
EDF 3515 Philosophical and Historical Foundations of Education 3
EDP 3004 Educational Psychology 3
EDG 3321 General Instructional Decision Making 3
EDG 3321L General Instructional Decision Making Lab 3

Total credits for the major: 75
Plus 36 university core and 9 hours of electives.
A grade of “C” or higher is necessary in all required courses.

Minor in Dance (20 credits)
The Minor in Dance is designed to meet the needs of the Liberal Arts student who wants to pursue dance to increase his/her creative development, artistic awareness, and intercultural understanding, or complement his/her major in a related field.

Requirements for Minor
Fourteen credits in dance studio courses.
Six credits in dance theory courses
Ten credits must be taken at FIU
Ten credits must be upper division

Minor in Theatre
Required Courses (24)
THE 2000 Theatre Appreciation 3
TPP 2100 Introduction to Acting 3
THE 4370 Modern Dramatic Literature 3
TPA 2210 Stagecraft 3
TPA 2290L Tech Theatre Lab I 1
Theatre Electives (upper division) 11
Theatre minors will not be allowed to take TPP 2110 Acting II.

Course Descriptions
Definition of Prefixes
DAA-Dance Activities; DAN-Dance; ORI-Oral Interpretation; SPC-Speech Communication; THE-Theatre; TPP-Theatre Production and Administration; TPA-Theatre Production and Administration.

Dance Program
DAA 1100 Modern Dance Techniques I (2). Development of Techniques and understanding of the art form of contemporary dance. May be repeated.
DAA 1101 Modern Dance Techniques I-2 (2). A continuation of Modern Dance Techniques I with emphasis on vocabulary, movement, rhythm and alignment. May be repeated. Prerequisite: DAA 1100 or permission of the instructor.
DAA 1200 Ballet Techniques I (2). Development of Techniques and understanding of ballet. May be repeated.
DAA 1201 Ballet Techniques I-2 (2). A continuation of Ballet Techniques I with an emphasis on vocabulary, movement skill and alignment. May be repeated. Prerequisite: DAA 1200 or permission of the instructor.
DAA 1500 Jazz Dance Technique I (2). Development of the dance Techniques and understanding of jazz dance. May be repeated.
DAA 2104 Modern Dance Techniques II (2). A continuation of basic Techniques and understanding of the art form of contemporary dance. Prerequisite: DAA 1100 or permission of the instructor. May be repeated.
DAA 2105 Modern Dance Techniques II-2 (2). A continuation of Modern Dance Techniques II with further emphasis on style and phrasing. Prerequisite: DAA 2102 or permission of the instructor. May be repeated.
DAA 2204 Ballet Techniques II (2). A continuation of Ballet Techniques II with increasing complexity of combinations. Emphasis on correct execution of basics and musicality. May be repeated. Prerequisite: DAA 2202 or permission of the instructor.

DAA 2205 Ballet Techniques II-2 (2). A continuation of the basic Techniques and understanding of ballet. Prerequisite: DAA 2202 or permission of the instructor. May be repeated.

DAA 2332 Capoeira/Afro-Brazilian Dance (2). An introductory studio course focusing on the techniques of capoeira and Afro-Brazilian dance within their cultural context. May be repeated.

DAA 2333 Afro-Cuban Dance (2). Explores through studio practice, discussion, and readings a variety of Afro-Cuban and popular Cuban folkloric styles within their broader religious, historical, political and cultural contexts. May be repeated.

DAA 2350 Spanish Dance I (2). This course explores the basics of three theatre styles of Spanish dance. May be repeated.

DAA 2504 Jazz Dance Techniques II (2). A continuation of Jazz I with emphasis on quickness and musicality when executing complex combinations of movements. May be repeated.

DAA 2520 Tap (2). Designed for students interested in learning the skills and Techniques of tap dancing. May be repeated.

DAA 2610 Dance Composition I (2). A study of the principles of composition emphasis on improvisation to explore structure and form in dance. Prerequisite: Permission of the instructor.

DAA 2611 Dance Composition II (2). A continuation of Composition I with an emphasis on exploring movement potential and structuring of dance forms. Prerequisite: DAA 2700 or permission of the instructor.

DAA 3094 Dance Studio (2). An in-depth studio focus on specific dance genres to vary each semester. May be repeated.

DAA 3108 Modern Dance Techniques III (3). A continuation of Modern Dance I and II with an emphasis on skills in movement style and phrasing necessary to perform modern dance repertory. Prerequisite: DAA 2102 or permission of the instructor. May be repeated.

DAA 3109 Modern Dance Techniques III-2 (3). A continuation of Modern Dance Techniques III with an emphasis on skills in movement style and phrasing necessary to perform modern dance repertory. Prerequisite: DAA 3104 or permission of the instructor. May be repeated.

DAA 3208 Ballet III (3). A continuation of Ballet I & II with an emphasis on developing strength & coordination in more complex movement. Additional work on phrasing, quality of movement, musicality and performance style. Prerequisite: DAA 2202 or permission of the instructor. May be repeated.

DAA 3209 Ballet Techniques III-2 (3). A continuation of Ballet Techniques III with an emphasis on strength and form. Introduction of pointe work. Center practice in balance, jumps, leaps and turns. Prerequisite: DAA 3204 or permission of the instructor. May be repeated.

DAA 3224 Pointe Techniques (1-2). Introduction of fundamentals for development of pointe Techniques. May be repeated. Prerequisite: Permission of the instructor. May be repeated.

DAA 3344 African and African Diaspora Dance (3). An experiential movement course exploring the African influenced dance culture of diverse nations such as Haiti, Cuba, and Brazil. May be repeated.

DAA 3345 Caribbean Dance (3). Studio exploration of popular and traditional dance genres and rhythms of the Caribbean region. Includes discussions of historical and cultural context of the dances. May be repeated.

DAA 3346 Haitian Dance (3). Explores through studio practice, discussion, and readings a variety of Haitian folkloric dance styles within their broader religious, historical, political, and cultural contexts. May be repeated.

DAA 3347 West African Dance (3). A studio exploration of selected dance styles and rhythms attributed to the classical societies of Western Africa. Genres are discussed within broad cultural context. May be repeated.

DAA 3354 Spanish Dance II (2). A continuation of Spanish Dance I stressing the development of musicality while working with a variety of basic rhythms. Arm and upper body strength and style will be emphasized as well as footwork techniques. Prerequisites: DAA 4362 or permission of the instructor. May be repeated.

DAA 3395 Cultural Dance Forms (2). An in-depth focus on specific cultural dance styles (Haitian, Afro-Cuban, etc.) to vary each semester. Studio course. May be repeated.

DAA 3508 Jazz Dance Techniques III (2). A continuation of Jazz Dance Techniques and skills with increased emphasis on developing complex dance combinations and full routines. May be repeated.

DAA 3614 Dance Composition III (3). A further exploration of choreography for the group form. Students will be required to take a concept and complete a work for showing and critique. Prerequisite: DAA 3701 or permission of the in-structor.

DAA 3654 Dance Repertory (2). The study and practice of works in repertory. May be repeated. Prerequisite: Permission of the instructor.

DAA 3655 Dance Repertory III (2). The continuation of study and practice of selected works of dance repertory. Prerequisite: Demonstration of competence is required. May be repeated.

DAA 3684 Dance Practicum (1). Dance studio explorations on varied topics. May include repertory, improvisations and technical experiences. Permission of the instructor. May be repeated.

DAA 4012 Global Perspectives in Dance and Culture I: Practicum (3). Studio exploration of selected topics in world dance and culture linked with discussions in Global Perspectives in Dance and Culture I: Theory. Improvisation, technique and repertory experiences.

DAA 4013 Global Perspectives in Dance and Culture II: Practicum (3). Further studio exploration of varied topics in world dance and culture linked with discussions in Global Perspectives in Dance and Culture II: Theory. Team-teaching methodology.

DAA 4110 Modern Dance Techniques IV (3). Advanced modern dance Techniques with the major focus on
dance as an art form using the body as a medium of expression. Prerequisite: DAA 3104 - or permission of the instructor. May be repeated.

DAA 4111 Modern Dance Techniques IV-2 (3). A continuation of Modern Dance Techniques IV with the major emphasis on performance skills. Prerequisite: DAA 4106 or permission of the instructor. May be repeated.

DAA 4210 Ballet Techniques IV (3). Further development of strength and form with emphasis placed on perfecting the execution of the classical ballet Techniques. Prerequisite: DAA 3204 or permission of the instructor. May be repeated.

DAA 4211 Ballet Techniques IV-2 (3). A continuation of Ballet Techniques IV with an emphasis on developing individual performance styles. Prerequisite: DAA 4206 or permission of the instructor. May be repeated.

DAA 4356 Spanish Dance III (2). A continuation of Spanish Dance II, stressing the development of musicality while working with both basic and more complex flamenco rhythms. Elements of flamenco choreography are also explored. Prerequisite: DAA 4363. May be repeated.


DAA 4615 Dance Composition IV (3). Students work on extended choreographic projects with an eye toward developing material for their senior project. Prerequisite DAA 3702 or permission of the instructor.

DAA 4656 Dance Repertory IV (2). The continuation of study and practice of selected works of dance repertory. Prerequisite: Demonstration of competence is required. May be repeated.

DAA 4905 Directed Study (3-12). Individual study by students under the direction of a faculty member. Topics vary; they are usually selected on an individual basis.

DAA 4930 Special Topics (3-12). The course centers around topics of current interest or of special interest to students or instructors. Topics vary from semester to semester.

DAE 3385 Building Community Through the Arts (3). Preparation for arts field experience in a variety of community settings. Students will gain an overall view of community-based art and curriculum design.

DAN 1400 Movement Analysis (3). An introduction to movement analysis, Bartenev fundamentals, and Labanotation.

DAN 1600 Music for Dance (2). The connection of musical structure and body movement will be explored in improvisational dance composition exercises. The basic elements of rhythm, tempo and meter will be studied.

DAN 2100 Introduction to Dance (3). An overview of dance from a variety of cultural and traditional perspectives. Through film, lecture, and movement, this course explores the diverse ways in which we organize and interpret our life experience as human beings through dance.

DAN 2160 Entry Seminar (1). An introductory course for those considering majoring in dance: an exploration of curricular requirements; courses; aesthetics; and other relevant topics.

DAN 2500 Dance Production I (2). This course prepares dancers for all aspects of dance concert production including lighting, costuming, props, set designs, budget management, and publicity.

DAN 2580 Production Practicum I (1). Practical assignments in working on dance and theatre productions.

DAN 3394 Dance and Culture of Latin America and the Caribbean (3). Team-taught interdisciplinary course offered as a summer institute focusing on Latin America and the Caribbean. Lecture, panels, and studio classes.

DAN 3504 Dance Production II (3). Continuation of theory and practice in elements of dance production.

DAN 3584 Production Practicum II (1). Practical experience in dance production.

DAN 3714 Kinesiology and Injury Prevention for Dance (3). A study of the body in motion. Students will apply their knowledge of anatomy to the moving dancer's body. Emphasis will be placed on alignment and correct body placement for injury prevention.

DAN 3724 Anatomy for Dance (3). An overview of the anatomy and physiology of the body explaining how certain anatomical structures and physiological processes interact to execute movement in a safe and effective manner.

DAN 3724L Anatomy for Dance Lab (1).

DAN 3774 Introduction to Dance Movement Therapy (1-2). An introduction to the history, theory, and practice of Dance/Movement Therapy. Students learn how this medium can further the emotional, cognitive, and physical integration of the individual.

DAN 4136 Global Perspective in Dance and Culture I: Theory (3). Cross-cultural, comparative survey of historic and contemporary world dance. Varied topics are explored within a broad cultural context. Team-taught, interdisciplinary methodology.

DAN 4137 Global Perspective in Dance and Culture II: Theory (3). Cross-cultural, comparative survey of historic and contemporary world dance. Exploration of varied historic and geographic regions of world culture.

DAN 4154 Philosophy and Criticism of Dance (3). An exploration of the major philosophical and critical theories of the art of the dance within a broad socio-historical context.

DAN 4180 Senior Dance Seminar (1). Senior level course for dancemajors covering a wide variety of topics including careers, graduate study, self-evaluation and related topics.

DAN 4396 Dance Ethnology (3). A special topics course which will study a specific dance culture from an historical, sociological and anthropological viewpoint. Topic will vary from semester to semester.

DAN 4905 Independent Study (3-12). Individual study by students under the direction of a faculty member. Topics vary; they are usually selected on an individual basis.

DAN 4910 Research (1-5). Supervised individual investigation of special research projects. Credit will vary with the nature and scope of the project. May be repeated.

DAN 4930 Special Topics (3-12). The course centers around topics of current
interest or of special interest to students or instructors. Topics or focus may vary from semester to semester.

DAN 4970 Senior Thesis (2). Preparation of a comprehensive final work in the student's area of emphasis under the direction of a faculty advisor. Prerequisite: Permission of the instructor, dance majors only.

DAN 5388 Dance Ethnology (3). A special topics course which will study a specific dance culture from an historical, sociological and anthropological viewpoint. Topic will vary from semester to semester.

DAN 5398 Latin American and Caribbean Dance and Culture (3). An intensive course offered through a Summer Institute focusing on Latin American and Caribbean dance and culture through seminars, performance techniques, and academic classes.

DAN 5399 Latin American and Caribbean Dance and Culture II (3). An intensive course focusing on Latin American and Caribbean dance and culture through seminars, performance technique, and academic classes.

DAN 5905 Independent Study (3-12). Individual study by students under the direction of a faculty member. Topics vary; they are usually selected on an individual basis.

DAN 4930 Special Topics (3-12). The course centers around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester.

DAN 4940 Field Experience in Dance (3). Practical application in varied community settings of knowledge acquired in the Dance Program. Students design and implement as outreach program. Prerequisite: DAE 3385.

Speech Communication Program

COM 3110 Business and Professional Communication (3). Identification of communication situations specific to business and the professions. Analysis of variables related to communication objectives and preparation of oral presentations and business correspondence.

COM 3410 Cultural Communication Patterns of Asia (3). Increases cultural awareness by contrasting and comparing communication patterns between Asian and Western cultures.

COM 3461 Intercultural/Interracial Communication (3). How people communicate cross-culturally, interculturally and intraculturally.

ORI 3003 Intermediate Oral Interpretation (3). A continuation of the basic techniques of oral interpretation with emphasis on program development. Programs will include poetry, prose, and drama. Prerequisite: ORI 3000.

ORI 3005 Basic Oral Interpretation (5). Development of the voice as an instrument for expressive interpretation of literature.

SPC 2016 Communication for Business (3). A communication course that emphasizes oral communication skills necessary for the business and professional communities. Concentration on interviewing, public speaking, problem-solving, and leadership skills.

SPC 2050 Voice and Diction (3). Effective voice production, articulation, acceptable pronunciation, accent reduction, intonation, rhythm and phrasing.

SPC 2600 Public Speaking (3). Study of the principles of ethical and effective public speaking, with practice in the construction and delivery of original speeches before an audience.

SPC 3210 Communication Theory (3). Comprehensive introduction to the study of human communication processes including verbal and nonverbal modalities. Key historical and contemporary definitions and concepts in communication theory are reviewed.

SPC 3301 Interpersonal Communication (3). Fundamental principles and terms of human communication study in the interpersonal context. Practical application of definitions, models, and communication rules and competence discussed with emphasis on a variety of relational stages and types.

SPC 3513 Argumentation and Debate (3). Lectures and activities concerned with audience-centered reasoning. Topics include: Nature of argument, analysis, reasoning, evidence, values, and building and refuting arguments. Prerequisite: SPC 2600 or permission of the instructor.

SPC 3514 Argumentation and Debate II (3). Study of all styles of formal and informal debate. Emphasis on construction and use of the brief, debate strategy, and delivery. Prerequisites: SPC 2600, SPC 3513 and permission of the instructor.

SPC 3602 Advanced Public Speaking (3). Examines public speaking as a workplace activity and provides students with practical experience. Emphasis is placed on incorporating technology into the different types of speeches. Prerequisite: SPC 2600 or permission of the instructor.

SPC 4445 Corporate Communication Theory and Leadership Dynamics (3). Emphasis on oral communication and leadership skills that are essential for the business community.

Theatre Program

FIL 3001 Introduction to Filmmaking (3). For the beginning student of filmmaking. Survey of the origins and development of cinematography as an art form. Presentation and technical analysis of selected films.

THE 1020 Introduction to Theatre for Majors (3). An orientation to the study, theory, and practice of theatre for freshman theatre majors. It provides the foundation for theatre study at more advanced levels. Prerequisite: Permission of the instructor. (F)

THE 2000 Theatre Appreciation (3). A study of theatre: process and product, introducing the past of theatre, its literature and traditions; and the means by which theatre is produced: acting, directing and visual design. (F,S)


THE 2820 Creative Dramatics (3). The study of informal drama activity with children. Techniques of improvisation, sense recall, music, and movement are employed.

THE 4110 Theatre History I (3). The development of the theatre from its origins to the early 19th century. (F)

THE 4111 Theatre History II (3). The development of the theatre from early 19th century to the present. (S)

THE 4370 Modern Dramatic Literature (3). Intensive play reading
THE 4760 Methods of Teaching Theatre (3). Theory and practice in developing skills as a high school director/teacher. Review texts and resource materials, develop a theatre education philosophy and practice teaching strategies. Prerequisite: Permission of the instructor.

THE 4916 Research (1-5). Supervised individual investigation of special research projects. Credit will vary with the nature and scope of the project. May be repeated.

THE 4930 Senior Seminar (2). Theories of theatre production. Reading, seminar presentations and discussions cover the theories of playwriting, dramatic forms, acting, directing, design and theatrical criticism. Prerequisite: Theatre major. (S)

THE 4950 Theatre Internship (1-15). Supervised internship in a professional company in acting, directing, stage management, design, technical theatre, or theatre management. Prerequisite: Permission of the instructor.

THE 4970 Senior Project I (1). Preparation of a final creative project in the student's area of emphasis under the direction of a department chairperson. Theatre majors only. Prerequisite: Permission of the instructor.

THE 4971 Senior Project II (1). Final preparation and performance or presentation of a creative project in the student's area of emphasis under the direction of a faculty advisor. Theatre majors only. Prerequisite: THE 4970.

THE 4972 Senior Thesis I (1). Research and writing of a thesis dealing with an aspect of theatre history and/or theory. Prerequisite: Permission of the instructor.

TPA 2001L Production Participation Lab (0). Students perform technical work on theatre productions. Required each term for theatre majors not taking a technical production course.

TPA 2010 Introduction to Scenic and Lighting Design (3). An introduction to the creative process of bringing scenery and lighting to the stage. Includes script analysis and rendering techniques. Prerequisite: TPA 2210. (F)

TPA 2210 Stagecraft I (3). An introduction to construction Techniques used in stage. Direct experience with wood and metal working tools, blueprint reading, and various materials including wood, metal, plastics and fabrics. Lecture and laboratory. Prerequisite: Prior arrangement with advisor. (F,S)

TPA 2211 Stagecraft II (3). Advanced problems in the construction and movement of scenery, properties, and special effects. Prerequisite: TPA 2210.

TPA 2220 Stage Lighting (3). Familiarization with stage lighting equipment, purposes, and aesthetics of stage lighting; development of an approach to designing lighting; practical experience in the use of equipment. Lecture and laboratory.

TPA 2248 Stage Make-up (3). Facial analysis, color matching, makeup design and application techniques of makeup for the stage. Includes character analysis and history of makeup styles. Prerequisite: Permission of the instructor. (S)

TPA 2290L Technical Theatre Lab I (1). Supervised crew work in construction, painting, lighting, costuming, and running major productions. Required of Theatre majors. (F,S)

TPA 2291L Technical Theatre Lab II (1). Supervised crew work. Required of Theatre majors. (F,S)

TPA 2292L Technical Theatre Lab III (1). Supervised crew work. Required of Theatre majors. (F,S)

TPA 3040 Costume Design I (3). The theory and practice of designing stage costumes through play and character analysis, research, and translation of this information into effective costume designs. Prerequisite: TPA 3230. Corequisites: TPA 2291 or TPA 2292.

TPA 3060 Scenic Design I (3) Nontraditional approaches to the development of design elements for the stage. Prerequisite: TPA 3230.

TPA 3061 Approaches to Design for the Stage (3). Nontraditional approaches to the development of design elements for the stage. Prerequisites: TPA 3230, and TPA 2010.

TPA 3071 Stage Rendering (3). An introduction to the Technques used in rendering scenery and costume design concepts. Recommended as preparation for TPA 3060.

TPA 3220 Stage Costuming (3). Costume history and costume construction techniques, as well as the basics of the design process, fabric identification, and manipulation. Corequisite: TPA 2290, 2291, 2292, or 3292. (F)

TPA 3293L Technical Theatre Lab IV (1). Supervised crew work. Required of Theatre majors. Prerequisite: TPA 2292L. (F,S)

TPA 3296 Advanced Technical Project I (2). Advanced practical projects in theatre design and technology in support of produced departmental productions. Projects are assigned to the student on the basis of emphasis and experience. Prerequisites: Permission of Instructor.

TPA 3930 Special Topics in Technical Production (1-3). Lecture-lab studies in particular areas of theatre production, one area per semester, including stage management, prop making, sound design, special effects.

TPA 4061 Scenic Design II (3). Advanced skills in setting the mood of, and creating movement through a theatrical space. Emphasis will be placed upon rendering Techniques and model making. Prerequisite: TPA 3060.

TPA 4041 Costume Design II (3). A continuation of Costume Design I, with increased emphasis on refining skills developed at first design level, plus developing a personal design style and more advanced construction skills. Prerequisite: TPA 3040.

TPA 4221 Stage Lighting II (3). Advance work in lighting of the stage. Emphasis is on practical training and experience through drafting of light plots accompanied by discussion and evaluation. Prerequisite: TPA 2220.

TPA 4297 Advanced Technical Project II (2). Advanced practical projects in theatre design and technology in support of produced departmental productions. Projects are assigned to the student on the basis of emphasis and experience. Prerequisites: Permission of Instructor.

TPA 4298 Advanced Technical Project III (2). Advanced practical projects in theatre design and technology in support of produced departmental productions. Projects are assigned to the student on the basis of
emphasize and experience. Prerequisites: Permission of Instructor.

TPA 4400 Stage and Theatre Management (3). A two part course introducing practical methods of stage management and aspects of theatre administration: marketing, budgeting, box office, fund raising.

TPA 5025 Performance Lighting (2). An introduction to lighting for entertainment; art's performances such as those presented at theme parks, concerts and outdoor performances. Prerequisite: Permission of graduate area advisor.

TPP 1110 Acting I (2). An introduction to the acting process using an improvisational approach. (S)

TPP 1120 Introduction to Performance: Improvisation (1). Designed to acquaint the beginning student with the improv improvisational work developed by Johnstone & Spolin. Course will center on trust, focus and ensemble building.

TPP 2100 Introduction to Acting (3). An introduction to the acting process. Self awareness, physical and vocal control, basic stage Techniques and beginning scene work will be studied. Intended for the student with little or no acting experience. (F, S)

TPP 2111 Acting II (3). Development and training of basic skills: use of self, stage terminology, stage voice and movement. Intended for the serious theatre student. Prerequisite: Permission of the instructor. Majors only. Corequisite: TPP 2510 and TPP 2710. (F)

TPP 2112 Acting III (3). Continuation of skills with emphasis on Stanislavski based technique, i.e., given circumstances and objectives. Through scenework students learn to analyze text and make discoveries through rehearsal. Prerequisite: TPP 2110 and TPP 3283 and permission of the instructor. Corequisite: TPP 3511 and TPP 3711. (S)

TPP 2190L Production and Performance (1). Exploration of the acting process through rehearsal and performance of a play. Prerequisites: Permission of Instructor.

TPP 2191L Production and Performance (1). Exploration of the acting process through rehearsal and performance of a play. Prerequisites: Permission of Instructor or TPP 4191.

TPP 2510 Theatre Movement I (2). A study of movement for the actor through improving the mind-body connection, alignment, relaxation, imagination, centering, flexibility and use of space. Corequisite: TPP 2110 and TPP 2710. (F)

TPP 2710 Theatre Voice and Speech I (2). Development of the vocal apparatus for wide range of performance demands. Alignment, relaxation, breathing, placement, resonance, range and emotional connection will be studied. Corequisite: TPP 2110 and TPP 2510. Prerequisite: TPP 1120 and permission of the instructor. (F)

TPP 3113 Acting IV (3). Continuation of skills with emphasis on transformational character choices. Through scenework students learn to apply what they've learned to several characters from contemporary playwrights. Prerequisites: TPP 2112 and permission of the instructor. Corequisite: TPP 3164. (F)

TPP 3164 Theatre Voice and Movement III (3). Laban, Feldenkrais, and Neutral Mask will be studied to improve self-use and body articulation. Emphasis on handling heightened texts such as Shakespeare. Prerequisites: TPP 3711, TPP 3511, audition for B.F.A. program. Corequisite: TPP 3112. (F)

TPP 3165 Theatre Speech and Movement IV (3). Character mask and period movement for more specific physical characterization study. The study of dialects and accents and vocal characterization. Prerequisites: TPP 3164. Corequisite: TPP 4114.

TPP 3304 Playscript Analysis (3). Detailed playscript examination for directors, actors and designers, focusing on identification of those elements upon which successful theatre production depends. (F)

TPP 3310 Directing I (1). Basic principles of play direction; including problems of selecting, analyzing, casting, and rehearsing plays. Prerequisites: TPP 2112 and TPP 3304. (S)

TPP 3511 Theatre Movement II (2). A continuation of the work from Theatre Movement I with an emphasis on the physical approaches to creating a character. Prerequisite: TPP 2510.
TPP 4920 Advanced Actor's Workshop I (3). This course will concentrate on the acting demands of a specific period, style, genre, or playwright. Prerequisite: TPP 4114 or permission of the instructor.

TPP 4930 Special Topics in Theatre Performance (1-3). Studio sessions covering selected topics of current interest in theatre performance. Prerequisites: Permission of Instructor.

TPP 4XXX Acting VI (3). Acting VI classical styles of acting, scene study focusing on Shakespeare and the Restoration. BFA majors only. Prerequisite: TPP 4114 Acting V and permission of instructor. Corequisite: TPP 3165.

TPP 4XXX Acting VII (3). Audition techniques through preparation and presentation of audition material. Includes an exploration of professional actor training and actor business protocol. BFA majors only. Prerequisite: TPP 4XXX Acting VI, TPP 3165 and permission of instructor.

TPP 4XXX Acting VIII (3). A comprehensive course in the study of acting, writing and directing for the camera - documentary, dramatic scenes, commercials - offered in conjunction with Channel 17. BFA majors only. Prerequisites: TPP 4XXX Acting VII.
Women's Studies

Suzanna Rose, Director, Women's Studies and Psychology
Affiliated Faculty:
Kelisha Abraham, English
Dawn Addy, Center for Labor Research and Studies
Janice Allen-Kelsey, Sociology/Anthropology
Irma de Alonso, Economics
Joan Baker, English
Lynne Barrett, English
Pascale Beel, Modern Languages
Michelle Beer, Philosophy
Glenda Belote, Undergraduate Studies
Lynn Berk, English
Lisa Blansett, English
Carole Boyce Davies, African New World Studies
Kristine Burns, Music
Janet Chernela, Sociology/Anthropology
Alice Clarke, Environmental Studies
Ginette Curry, English
Carol Damian, Visual Arts
Denise Duhamel, English
Evelyn Enrione, Dietsetics and Nutrition

Nadine Fernandez, Sociology/Anthropology
Rebecca Friedman, History
Karen Garner, Women’s Center
Valerie George, Dietsetics and Nutrition
Hugh Gladwin, Sociology/Anthropology
Maria Asuncion Gomez, Modern Languages
Christine Gudorf, Religious Studies
Kimberly Harrison, English
Marilyn Hoder-Salmon, English
Tomero Hopkins, English
Rosa Jones, Social Work
Ken Johnson, English
Sherry Johnson, History
Suzanne Koptur, Biology
Lilly Langer, Sociology/Anthropology
Abe Lavender, Sociology/Anthropology
Mary Levitt, Psychology
Felice Lifshitz, History
Sarah Mahler, Sociology/Anthropology
Kathleen Martin, Sociology/Anthropology
Kathleen McCormack, English
Kathryn McKinley, English
Carmen Mendez, Education
Betty Morrow, Sociology/Anthropology
Sherry Moss, Business
Lesley Northup, Religious Studies
Joyce Peterson, History
Eleanor Polster, Management
Patricia Price, International Relations

Elisabeth Prulg, International Relations
Ana Roca, Modern Languages
Meri-Jane Rochelson, English
Rebecca Salokar, Political Science
Regina Shearn, Criminal Justice
Betsy Smith, Social Work
Ellen Sprechman, English
Judith Stiehm, Political Science
Linda Strong-Leek, English
John Stuart, Architecture
James Sutton, English
Joan Torres-Pou, Modern Languages
Nan Van Den Bergh, Social Work
Ophelia Weeks, Biology
Donna Weir-Soley, English
Barbara Weitz, English
Lois West, Sociology/Anthropology
Margaret Wilson, Center for Labor Research and Studies
Kirsten Wood, History

Bachelor of Arts in Women’s Studies

This major provides an opportunity for the study of the historical, political, economic, economic, literary, social, and cultural roles of women and of the function of gender in diverse societies and cultures. The courses are coordinated by the Women’s Studies Center, and are open to women and men alike. Through this rich discipline, bias throughout society - in the workplace, in school, and at home - is analyzed through historical study and new theory. Equal importance is given to the commitment to discover and teach ideas and knowledge about global concerns, nationality, race, ethnicity, class, age, and sexual orientation. Students may formulate a program of study consonant with their interests and goals. The major is an excellent preparation for graduate study in most fields and for careers in both the public and private sectors. A background in women’s studies develops critical skills and offers new knowledge to meet the challenges of alterations in society and of expanding opportunities.

For further information and/or to seek academic advising for the women’s studies major, visit the Women’s Studies Center in DM-212 or call (305) 348-2408 or send email to: wstudies@fiu.edu. At Biscayne Bay Campus, students may inquire at AC1 318 or call (305) 919-5859. We welcome your inquiry.

Lower Division Preparation

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST or its equivalent, completed 60 semester hours, and be otherwise acceptable into the program.

Upper Division Program

The major requires 30 hours of upper division course work. Students who elect to major in women’s studies are required to declare a minor in another area of concentration (courses may overlap). Students who choose to declare a double major are exempt from the minor requirement. The major requires a core concentration of four courses and six electives for a total of 10 courses. Any core concentration course that is not taken for the core requirement may be taken as an elective. Refer to full course descriptions in the appropriate departmental listings of this catalog.

All students entering the major in Fall 2000 or later must take one course in the major that develops computer competency and one that develops oral competency. Courses that fulfill these requirements will be noted in each semester’s Women’s Studies course flyer. These courses will constitute part of the 30-credit requirement, and they may be core courses or electives.

Additionally, each student in the major will be asked to have an exit interview before graduation, beginning with those graduating in Fall 2000, and will be asked to bring to the interview one research paper she or he has written for a course in the major. Neither the interview nor the paper will affect the student’s graduation; their purpose is for the program to assess its effectiveness in accomplishing its goals.

Genre and topic courses are offered regularly and new courses are periodically added to the curriculum. The elective selection may include one course on ethnicity, class or race that is not specifically a women’s studies course. Student programs are coordinated with designated faculty advisors. The program also offers an academic certificate in women’s studies. For further information refer to the certificate page at the end of the College of Arts and Sciences section.

Upper Division Requirements

Core Concentration: (Four courses; twelve hours/one course from each of the following four categories)

I. WST 3015 Introduction to Women's Studies 3
or
Introduction to Multiculturism, Managing History Women in the Domestic Sphere, and Feminist Theory. An interdisciplinary study of American women in today's world. Focuses on women through the life course and examines the debates on women's studies in the university.

WST 3641 Gay and Lesbian in the United States (3). An interdisciplinary examination of contemporary issues facing gays and lesbians in the United States. Topics include a review of significant events in the gay/lesbian movement; political and legal considerations; and social/cultural contributions.

WST 4504 Feminist Theory (3). This course explores how women are viewed theoretically across the social sciences and humanities. Topics such as multiculturalism, cross-nationalism and post-modernism are addressed.
Certificate Programs

Certificates
Certificate Programs are structured combinations of courses with a common base of interest from one or more disciplines into an area of concentration.

Successful completion of a Certificate Program is entered on the student's transcript and records. Two types of certificates are awarded:

Academic Certificate
Awarded by an academic unit to a student at the time of awarding a bachelor's degree; or upon completion of the appropriate coursework to a student who already has a bachelor's degree.

An academic certificate shall not be awarded to a student who does not possess either a bachelor's degree or does not complete a bachelor's degree program. An academic certificate is to be interdisciplinary in nature, to the greatest extent possible.

Professional Certificate
Awarded by an academic unit to an individual who completes the appropriate coursework in the area of concentration. The professional certificate does not need to be interdisciplinary or associated with a degree program. For details and course requirements, refer to the appropriate Certificate Director or academic department.

Academic Certificates in:
Actuarial Studies
African Studies
African-New World Studies
American Studies
Ancient Mediterranean Civilization
Asian Studies
Asian Globalization and Latin America Studies
Brazil Studies
Comparative Immunology
Cuban and Cuban-American Studies
Environmental Studies
Ethnic Studies
European Studies
Film Studies
Forensic Science
Gerontological Studies
International Studies
Jewish Studies
Labor Studies
Latin American and Caribbean Studies
Law, Ethics and Society
Linguistic Studies
MERCOSUR Studies
Pre-Modern Cultures
Public Policy Studies
Women's Studies

Professional Certificates in:
Conflict Resolution and Consensus Building (Graduate)
Geographic Information Systems (Graduate)
Labor Studies and Labor Relations Legal Translation and Court Interpreting
Portuguese Translation Studies
Portuguese Interpretation Studies
Professional Language Translation Studies
Tropical Commercial Botany

Certificate in Actuarial Studies

Coordinating Committee
Hassan Zahedi, Director, (Statistics)
Steve Hudson, (Mathematics)
Shamita Dutta Gupta, (Mathematics)

The Certificate in Actuarial Studies is designed to provide a focus for those students who are interested in pursuing a career in the actuarial sciences. The primary emphasis of the Certificate program is on the mathematical and statistical background that forms the foundation of the work in this area.

The program is most obviously suitable for those students who are majoring in Mathematics or Statistics. It would also be valuable for those who wish eventually to enter the actuarial field, but choose to major in an allied discipline, such as Business or Computer Science. In addition, it allows access to persons in the community who are currently working in this area and wish to develop or upgrade their skills.

Upon completion of the following requirements, a student may apply for the Certificate in Actuarial Studies. The Certificate will be awarded at the time of awarding a Bachelor's degree, or upon completion of this work if the student already has a Bachelor's degree.

Statistics and Mathematics Required Courses: (20)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>a) MAC 2311</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>b) MAC 2312</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>c) MAC 2313</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>d) MAS 3105</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>e) MAT 3930</td>
<td>Special Topics - Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>f) STA 4321</td>
<td>Mathematical Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>g) STA 3930</td>
<td>Special Topics - Mathematics</td>
<td>3</td>
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College of Arts and Sciences
Statistics 237

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MAS 3105</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>MAD 3401</td>
<td>Numerical Analysis</td>
</tr>
<tr>
<td>MAD 5405</td>
<td>Numerical Methods</td>
</tr>
<tr>
<td>MAT 3930</td>
<td>Special Topics - Mathematics</td>
</tr>
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Four options from the following list: (12)

<table>
<thead>
<tr>
<th>Option</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>a) STA 4322</td>
<td>Mathematical Statistics II</td>
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<tr>
<td>b) MAD 3401</td>
<td>Numerical Analysis</td>
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<tr>
<td>c) MAD 5405</td>
<td>Numerical Methods</td>
</tr>
<tr>
<td>d) STA 4234</td>
<td>Introduction to Regression Analysis</td>
</tr>
<tr>
<td>e) STA 5236</td>
<td>Regression Analysis</td>
</tr>
<tr>
<td>f) ECO 2013</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>g) ECO 2023</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>h) ECO 4237</td>
<td>Money, Interest, and Capital</td>
</tr>
<tr>
<td>i) ACG 3024</td>
<td>Accounting for Decisions</td>
</tr>
<tr>
<td>j) FIN 3403</td>
<td>Financial Management</td>
</tr>
<tr>
<td>k) COP 2210</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>l) COP 3337</td>
<td>Intermediate Programming</td>
</tr>
</tbody>
</table>

An overall average of 'B' (3.0 GPA) or better in the 32 semester-hours of coursework listed above, with a grade of 'C' or better in each course. A minimum of 12 of these semester-hours must be earned in courses taken at the University.

African-New World Studies

African and African Diaspora Studies Programs respond to canonical deficiencies and student inquiries by developing new theories, discourse, and approaches to academics and the world. Housed within the College of Arts and Sciences, the African-New World Studies Certificate Program provides students with an interdisciplinary approach to the study of the global, economic, cultural, and historical experiences of people of African descent. The Certificates complement students' work in their...
major fields of study on the undergraduate level while fostering greater understanding of traditionally marginalized topics. African New World Studies offers two certificates:


Carole Boyce Davies, Director of African-New World Studies Program, Professor of English & African-New World Studies.

Clarence Taylor, Director of Graduate Studies, Professor, History & African-New World Studies.

Faculty:

Pascale Becel, Associate Professor, Modern Languages
Ken Boodhoo, Associate Professor, International Relations
Jean-Robert Cately, Assistant Professor, Modern Languages & African-New World Studies
John Clark, Associate Professor, International Relations
Mohamed Farouk, Associate Professor, College of Education
Nadine Fernandez, Assistant Professor, Sociology/Anthropology
Steve Fjellman, Professor, Sociology & Anthropology
Ivelaw L. Griffith, Professor, Political Science
Tommetro Hopkins, Associate Professor, English
Alexander Lichtenstein, Associate Professor, History
Marcia Magnus, Associate Professor, Dietetics & Nutrition
Anthony Maingot, Professor, Sociology/Anthropology
Andrea Mantell-Seidel, Associate Professor, Theater & Dance
Roderick Paul Neumann, Associate Professor, International Relations
Akin Ogundiran, Assistant Professor, History
Valerie Patterson, Assistant Professor, College of Urban & Public Affairs
Jean Rahier, Associate Professor, Sociology/Anthropology and African-New World Studies,
Terry Rey, Assistant Professor, Religious Studies
Robin Sherriff, Assistant Professor, Sociology/Anthropology
Vicky Silvera, Library
Linda Spears-Bunton, Associate Professor, College of Education
Alex Stepick III, Professor, Sociology & Anthropology
James Sweet, Assistant Professor,

History, African New World Studies
Juan Torres-Pou, Assistant Professor, Modern Languages
Donna Weir-Soley, Assistant Professor, English

Certificate in African-New World Studies
General Requirements (18)
Students complete 18 credit hours of study from disciplines as diverse as dance, geography, history, international relations, journalism, sociology, anthropology, literature, music and political science. Six credits are composed of the two required core course offerings. AFA 2000 and AFA 4930 should be taken before 60 credits are completed. Of the remainder, at least three credits must come from each of two lists, one comprising the Arts and Humanities, and the other the Social Sciences. The program director may approve other courses upon request. Students requesting an exception must present a syllabus for the course they would like to enroll in.

Required Core Courses (6)
AFA 2000 Introduction to African-New World Studies 3
AFA 4930 African-New World Studies: Theory & Methods Seminar 3

Arts and Humanities Courses (3-9 credits)
AFH 4100 History of Africa I 3
AFH 4200 History of Africa II 3
AFH 4405 History of East Africa 3
AFH 4450 History of South Africa 3
AMH 4570 African-American History 3
AMH 4571 African American History from the 17th to the late 19th Centuries 3
AMH 4573 African-American History from the late 19th Century to the present 3
AFA 2000 African-American Literature 3

Course Descriptions
AFA 2000 Introduction to African-New World Studies (3). A core requirement for those considering a certificate or major in African-New World Studies. Key ideas, thinkers, theories, and geographical locations of peoples and culture of the African Diaspora.

AFA 4014 Studies in 19th Century African-American Literature 3
AML 4204 Studies in 20th Century African-American Literature 3
AML 4621 Major African American Writers 3
FRW 4750 Francophone Literature 3
Includes instruction on pedagogy, teaching methods and FCAT.

AFA 4930 African-New World Studies: Theory & Methods Seminar (3). Nature, meaning and intent of intellectual productions in Africa and the Diaspora. Examines the works of key thinkers that have made visible some of the submerged or appropriated realities of African peoples.

Certificate in African Studies
Akin Ogundiran, Coordinator (African History)
Kingsley Banya, (Education)
Pascale Becel, (Modern Languages)
Carole Boyce Davies, (English & African-New World Studies)
John Clark, (International Relations)
Kevin Hill, (Political Science)
Rod Neumann, (International Relations-Geography Program)
Jean Rahier, Sociology/Anthropology and African New World Studies
Terry Rey, Religious Studies
Clarence Taylor, History and African New World Studies

The primary goal of the Certificate in Continental African Studies is to enable students to obtain an interdisciplinary concentration in African studies. The mechanism of a certificate provides students with a credential that attests to their sustained scholastic efforts in the area of Continental African studies. The African Studies certificate parallels those in Asian Studies, European Studies, and Latin American Studies in providing students with an opportunity to certify their sustained study of the social affairs and humanities of a particular geographical region. The certificate will require students to take one course in African history as a core subject, and four additional three credit hours divided between the humanities and social sciences.

Prescribed Courses and Other Requirements:
The Certificate requires students to complete 15 credit hours, distributed as follows:

**Core Requirements (3 credits)**
One of the following two courses:

- AFH 4100 History of Africa I 3
- or
- AFH 4200 History of Africa II 3

**Social Sciences Requirement (3-9 credits)**

- ANT 4352 African Peoples & Cultures 3
- CPO 3204 African Politics 3
- GEA 3600 Population & Geography of Africa 3
- INR 3252 International Relations of North Africa 3
- or
- INR 3253 International Relations of Sub-Saharan Africa 3

**Humanities Requirement (3-9 credits)**
Students take one to three 3-credit courses from the following:

- AFA 4930 African-New World Studies: Theory & Methods Seminar 3
- AFH 4405 History of East Africa 3
- AFH 4450 History of South Africa 3
- FRW 4750 Francophone Literature of Africa 3
- LIT 4351 Major African Writers 3
- PHI 3073 African Philosophy 3
- REL 4990 African Religions 3

We encourage students to enroll in the following dance course. Only three credit hours (one course) will count towards the fulfillment of the certificate requirements.

- DAA 3347 West African Dance

*The program director may approve other courses upon request. Students requesting an exception must present a syllabus for the course in which they would like to enroll.

**American Studies Certificate Program**

Darden A. Pyron, Director (History)

Coordinating Committee

- Tucker Arnold, (English)
- Lynn Berk, (English)
- Eric Leed, (History)
- Howard Rock, (History)
- Donald Watson, (English)

The American Studies Certificate Program provides the opportunity for students to examine the nature of American civilization through an interdisciplinary study of American history, literature, culture, and thought. The program provides a grounding in American literature and American history, a sampling of how each discipline approaches the study of American civilization, and an opportunity to follow the approaches of political science, anthropology, philosophy, and religion. Through a seminar in American studies, students will apply the insights of the various disciplines to problems of their own choosing.

**Ancient Mediterranean Civilization Certificate Program**

Marian Demos, Director, (MOL/Humanities)(BU)

Coordinating Committee

Marian Demos, (Humanities)

- Erik Larson, (Religious Studies)
- Kate McKinley, (English)
- Mary-Beth Melchior, (Political Science)

Darden Pyron, (History)

Paul Warren, (Philosophy)

The Ancient Mediterranean Civilization Certificate Program is an eighteen credit-hour course of study intended to enable students to gain an interdisciplinary concentration in various aspects of the Ancient Mediterranean. It is designed to enhance undergraduates' understanding of the ancient Mediterranean region, primarily (but not exclusively), the cultures of Rome, Greece, and Judaean, and to complement the student's major course of study, especially in Anthropology, English,
History, Humanities, Philosophy, Religious Studies, and Visual Arts.

Courses are to be chosen from the following list in consultation with the approval of an advisor. A grade of C or better is required for all courses (C- is not acceptable). This listing should be understood as a partial list. Students should consult with an advisor of the certificate program about current course offerings.

1. All students are required to demonstrate ability in at least one Classical Language (Classical or New Testament Greek, Latin, Biblical Hebrew or other ancient language with Director's approval)

**Classical Greek**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRE 1120</td>
<td>5</td>
</tr>
<tr>
<td>GRE 1121</td>
<td>5</td>
</tr>
</tbody>
</table>

**New Testament Greek**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRE 3041</td>
<td>3</td>
</tr>
<tr>
<td>GRE 3050</td>
<td>3</td>
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</tbody>
</table>

**Biblical Hebrew**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBR 3100</td>
<td>3</td>
</tr>
<tr>
<td>HBR 3101</td>
<td>3</td>
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</tbody>
</table>

**Latin**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAT 1120</td>
<td>5</td>
</tr>
<tr>
<td>LAT 1121</td>
<td>5</td>
</tr>
</tbody>
</table>

2. At least 18 semester hours from the following course program, course listing, or others approved by the certificate program advisor. Students must take one course from each of three fields (Culture, History, and Religion) and two courses from any field. A maximum of 5 credits may be applied towards the certificate from language classes (see section 1.)

**Foundation Classes**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 3214</td>
<td>Ancient Classical</td>
<td></td>
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<tr>
<td></td>
<td>Culture &amp; Civilization</td>
<td></td>
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<tr>
<td>EUH 2011</td>
<td>Western Civilization: Early European</td>
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<tr>
<td></td>
<td>Civilization</td>
<td></td>
</tr>
<tr>
<td>HUM 3432</td>
<td>The Roman World</td>
<td></td>
</tr>
<tr>
<td>HUM 4431</td>
<td>The Greek World</td>
<td></td>
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<tr>
<td>PHH 3100</td>
<td>Ancient Philosophy</td>
<td></td>
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<tr>
<td>POT 3013</td>
<td>Ancient and Medieval</td>
<td></td>
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<tr>
<td></td>
<td>Political Thought</td>
<td></td>
</tr>
<tr>
<td>ANT 3101</td>
<td>Introduction to</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Archaeology</td>
<td></td>
</tr>
<tr>
<td>ARH 3210</td>
<td>Early Christian and Byzantine Art</td>
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<tr>
<td>ARH 4131</td>
<td>Greek Art</td>
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<tr>
<td>ARH 4151</td>
<td>Roman Art</td>
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<tr>
<td>EUH 3400</td>
<td>Greek History</td>
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<td>EUH 3411</td>
<td>Ancient Rome</td>
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<tr>
<td>EUH 4300</td>
<td>Byzantine History</td>
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<tr>
<td>EUH 4401</td>
<td>History of Fifth Century</td>
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<tr>
<td>EUH 4xxx</td>
<td>Age of Alexander the Great</td>
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<tr>
<td>REL 3209</td>
<td>The Dead Sea Scrolls</td>
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<tr>
<td>REL 3220</td>
<td>Moses, Priests and Prophets</td>
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<tr>
<td>REL 3250</td>
<td>Jesus and the Early Christians</td>
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<tr>
<td>REL 3270</td>
<td>Biblical Theology</td>
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<tr>
<td>REL 3280</td>
<td>Biblical Archaeology</td>
<td></td>
</tr>
<tr>
<td>REL 3320</td>
<td>Moses, Jesus, Muhammed</td>
<td></td>
</tr>
<tr>
<td>REL 3325</td>
<td>Religions of Classical Mythology</td>
<td></td>
</tr>
<tr>
<td>REL 3510</td>
<td>Early Christianity</td>
<td></td>
</tr>
<tr>
<td>REL 3551</td>
<td>Mary and Jesus</td>
<td></td>
</tr>
<tr>
<td>REL 3625</td>
<td>Introduction to Talmud</td>
<td></td>
</tr>
<tr>
<td>REL 4424</td>
<td>The Prophets and Israel</td>
<td></td>
</tr>
<tr>
<td>REL 4251</td>
<td>Jesus and Paul</td>
<td></td>
</tr>
<tr>
<td>REL 5614</td>
<td>Ancient Judaism</td>
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<tr>
<td>HUM 3214</td>
<td>Ancient Classical</td>
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<tr>
<td></td>
<td>Culture &amp; Civilization</td>
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<tr>
<td>HUM 3214</td>
<td>Ancient Classical</td>
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<tr>
<td></td>
<td>Culture &amp; Civilization</td>
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**Religion**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>REL 3510</td>
<td>Early Christianity</td>
<td></td>
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<tr>
<td>REL 3551</td>
<td>Mary and Jesus</td>
<td></td>
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<tr>
<td>REL 3625</td>
<td>Introduction to Talmud</td>
<td></td>
</tr>
<tr>
<td>REL 4424</td>
<td>The Prophets and Israel</td>
<td></td>
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<tr>
<td>REL 4251</td>
<td>Jesus and Paul</td>
<td></td>
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<tr>
<td>REL 5614</td>
<td>Ancient Judaism</td>
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</tbody>
</table>

**Language**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GRE 1120</td>
<td>Classical Greek I</td>
<td></td>
</tr>
<tr>
<td>GRE 1121</td>
<td>Classical Greek II</td>
<td></td>
</tr>
<tr>
<td>GRE 2200</td>
<td>Intermediate Classical Greek</td>
<td></td>
</tr>
<tr>
<td>GRE 3041</td>
<td>New Testament Greek II</td>
<td></td>
</tr>
<tr>
<td>GRE 3050</td>
<td>New Testament Greek I</td>
<td></td>
</tr>
<tr>
<td>GRW 3210</td>
<td>Greek Prose Writers</td>
<td></td>
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<tr>
<td>HBR 2000</td>
<td>Biblical Hebrew I</td>
<td></td>
</tr>
<tr>
<td>HBR 3101</td>
<td>Biblical Hebrew II</td>
<td></td>
</tr>
<tr>
<td>LAT 1120</td>
<td>Latin I</td>
<td></td>
</tr>
<tr>
<td>LAT 1121</td>
<td>Latin I</td>
<td></td>
</tr>
<tr>
<td>LAT 2200</td>
<td>Intermediate Latin</td>
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</tr>
<tr>
<td>LAT 3210</td>
<td>Latin Prose Writers</td>
<td></td>
</tr>
</tbody>
</table>

**Asian Studies Certificate Program**

Steven Heine, Director (Religious Studies and History)

Coordinating Committee

David Chang, (Education)

Krishnan Dandapani, (Finance, College of Business)

Asuka Haraguchi, (Modern Languages)

Nathan Katz, (Religious Studies)

Paul Kowert, (International Relations)

Mohiaddin Mesbah, (International Relations)

William Walker III, (History)

Maida Watson, (Modern Languages)

The certificate in Asian studies provides students with a rich learning experience about a fascinating and increasingly important region of the world, and is intended to enhance the student's competitiveness upon graduation. The program provides a multidisciplinary approach covering the philosophy, religion, art history, language and literature of Asia as well as issues in history, politics, geography, sociology/anthropology, and international relations.

The Asian Studies program offers courses in humanities/fine arts and social sciences/professions that cover the regions of East, South, and Central Asia, as well as pan-regional or comparative studies. The Asian studies certificate requires a total of eighteen credits and includes the following:

- Two semesters or equivalent of an Asian language (e.g. Chinese or Japanese); five credits of language courses may be applied to the certificate.
- 18 credits from the coursework listed below to be chosen with the approval of the Director with a "C" or better, with at least 3 credits in Humanities/Fine Arts or Social Sciences/Professions; in addition to the courses listed here, relevant special topics, area studies, or comparative studies courses may also be applied.

**Humanities/Fine Arts (at least 3 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AMH 4544</td>
<td>The United States and the Vietnam War</td>
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<tr>
<td>AML 4930</td>
<td>American Writers and the Orient</td>
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</tr>
<tr>
<td>ARH 4552</td>
<td>Art of China and Japan</td>
<td></td>
</tr>
<tr>
<td>ASN 4510</td>
<td>Dynamics of Asia</td>
<td></td>
</tr>
<tr>
<td>COM 3410</td>
<td>Culture Communication Patterns of Asia</td>
<td></td>
</tr>
<tr>
<td>PHH 3810</td>
<td>Philosophy of Buddhism</td>
<td></td>
</tr>
<tr>
<td>PHH 3840</td>
<td>Indian Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI 3762</td>
<td>Eastern Philosophy and Religious Thought</td>
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</tr>
<tr>
<td>PHP 3840</td>
<td>Chinese &amp; Japanese Philosophy</td>
<td></td>
</tr>
<tr>
<td>REL 3027</td>
<td>Meditations and Mystical Traditions</td>
<td></td>
</tr>
<tr>
<td>REL 3313</td>
<td>Sources of Modern Asian Society</td>
<td></td>
</tr>
<tr>
<td>REL 3314</td>
<td>Religions of the Silk Road</td>
<td></td>
</tr>
<tr>
<td>REL 3330</td>
<td>Religions of India</td>
<td></td>
</tr>
<tr>
<td>REL 3028</td>
<td>Sacred Places, Sacred Travels</td>
<td></td>
</tr>
<tr>
<td>REL 4311</td>
<td>Religious Classics of Asia</td>
<td></td>
</tr>
<tr>
<td>REL 4312</td>
<td>Jews of Asia</td>
<td></td>
</tr>
<tr>
<td>REL 4340</td>
<td>Survey of Buddhism</td>
<td></td>
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<tr>
<td>REL 4345</td>
<td>Zen Buddhism</td>
<td></td>
</tr>
<tr>
<td>REL 4351</td>
<td>Religion and Japanese Culture</td>
<td></td>
</tr>
</tbody>
</table>
Asian Globalization and Latin America Certificate

Steven Heine, Director (Religious Studies and History)
Theodore R. Young, Associate Director (Modern Languages)
Coordinating Committee

Douglas Kincaid, (Vice Provost of International Studies)
Catherine Marsick, (Librarian)
William Walker, (History)
Maida Watson, (Modern Languages)

The Asian Globalization and Latin America Certificate is an eighteen credit course of study designed to offer both pre and post-baccalaureate students as well as degree-seeking students specializing in various disciplines with regards to the Globalization of Asia and Latin America. The certificate focuses on the language and culture of both Asia and Latin America (specifically Chinese, Japanese, Portuguese and Spanish), while allowing the student to specialize in such fields as Anthropology, Business, Dance, Fine Arts, History, International Relations, Music, Philosophy, and Religion as related to the regions. Students may apply towards the certificate up to 5 credits of language instruction from language courses taken at FIU or from study abroad (see advisors).

For all students, the certificate represents a way to gain specialized knowledge of integrative, trans-regional issues in relation to Asia and Latin America. For students pursuing a degree, the certificate should be understood as a complement to the student's major area of study. Non-degree seeking students can use the certificate as a demonstration of their understanding of the regions and their global phenomena through language, culture and other areas.

Prescribed Courses and Other Requirements

Courses are to be chosen from the following list in consultation with and approval of the advisor. A grade of 'C' or better is required for all courses (C- is not acceptable). These courses should be understood as a partial list; students should consult with an advisor for the certificate program about current course offerings.

1. All students are required to demonstrate proficiency (through the intermediate level) in one language group and familiarity (one semester) in the other. Students already demonstrating proficiency in an Asian or Latin American language may be exempt from this requirement. This requirement may be satisfied through examination (see advisors), coursework, or by completing one of the following sequences:

Group A: Chinese & Japanese:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHI 3130</td>
<td>5</td>
<td>Chinese I</td>
</tr>
<tr>
<td>CHI 3131</td>
<td>5</td>
<td>Chinese II</td>
</tr>
<tr>
<td>CHI 3210</td>
<td>3</td>
<td>Intermediate Chinese</td>
</tr>
<tr>
<td>JPN 1120</td>
<td>3</td>
<td>Japanese I</td>
</tr>
<tr>
<td>JPN 1121</td>
<td>3</td>
<td>Japanese II</td>
</tr>
<tr>
<td>JPN 3210</td>
<td>3</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>JPN 3930</td>
<td></td>
<td>Intermediate Japanese Special Topics</td>
</tr>
<tr>
<td>JPN 3931</td>
<td></td>
<td>Special Topics: Japanese for Business</td>
</tr>
<tr>
<td>JPN 3932</td>
<td></td>
<td>Special Topics: Japanese IV</td>
</tr>
<tr>
<td>JPT 3xxx</td>
<td></td>
<td>Japanese Culture and Calligraphy</td>
</tr>
</tbody>
</table>

2. At least 18 semester hours of courses from the following certificate program course listing, or others approved by the certificate program advisor. Students must take courses from at least three fields (Fields 1-7) distributed across three regional areas: A) Asian Studies; B) Latin America Studies; and C) Global Studies. Students should note that fields vary in the quantity of course offerings across regional areas. Up to 5 credit-hours may be applied from language requirement courses (see above).

Area A: Asian Studies Courses

The following core courses fulfill certificate requirements. A minimum of
6 credit-hours must be taken from this list. A maximum of two tutorial or Independent Study courses may be taken only with professors whose area of research is Asian Studies, and only with approval from the advisor.

Field 1: Language, Literature and Culture

CHI 3130 Chinese I
CHI 3131 Chinese II
CHI 3210 Intermediate Chinese
CHI 3xxx Chinese for Business
JPN 1120 Japanese I
JPN 1121 Japanese II
JPN 3210 Intermediate Japanese
JPN 3xxx Japanese for Business
JPN 3xxx Japanese Culture and Calligraphy

COM 3410 Cultural Communication Patterns in Asia

Field 2: Philosophy and Religion

PHH 3840 Indian Philosophy
PHH 3810 Philosophy of Buddhism
PHI 3762 Eastern Philosophical and Religious Thought
PHP 3840 Chinese and Japanese Philosophy
REL 4311 Religious Classics of Asia
REL 4312 Jews of Asia
REL 4340 Survey of Buddhism
REL 4345 Zen Buddhism
REL 3330 Religions of India

Field 3: Sociology & Anthropology, and Environmental Studies

ANT 4328 Area Studies: Asia or Southeastern Asia and China
EVR 4276 Asian Environmental Issues
SYA 4170 Comparative Sociology [Asia & Latin America]
SYD 4610 Area Studies: Social Structure and Problems

Field 4: History

AMH 4544 The United States and the Vietnam War

Field 5: Political Science and International Relations & Geography

CPO 3553 Government and Politics in Japan
CPO 3502 Politics of the Far East
CPO 3541 Politics of China
INR 3223 Japan & the United States
INR 4773 Asia & Latin America in World Affairs
INR 3232 International Relations of China
INR 3224 International Relations of East Asia

Field 6: Economics and Finance

ECS 3200 Economics of Asia

Field 7: Fine Arts

ARH 4552 Art of China and Japan

Area B: Latin American Studies Courses

The following core courses fulfill certificate requirements. A minimum of 6 credits must be taken from this list. A maximum of two tutorial or Independent Study courses may be taken only with professors whose area of research is Asian Studies, and only with approval from the advisor.

Field 1: Language, Literature and Culture

POR 1130 Portuguese I
POR 1131 Portuguese II
POR 2200 Intermediate Portuguese
POR 3230 Accelerated Portuguese I
POR 3231 Accelerated Portuguese II
POR 3440 Portuguese for Business
POR 3500 Luso-Brazilian Culture
POW 4930 Special Topics: Brazilian Literature
POW 4390 Brazilian Cinema
SPN 1120 Spanish I
SPN 1121 Spanish II
SPN 2200 Intermediate Spanish
SPN 3440 Spanish for Business
SPN 3520 Spanish American Culture
SPW 3371 Latin American Short Story
SPW 3520 Prose & Society
SPW 4364 Spanish American Essay
SPW 4xxx Literature of the Philippines

Field 2: Philosophy and Religion

PHH 3042 Latin American Philosophy
REL 4481 Contemporary Latin American Religious Thought

Field 3: Sociology & Anthropology, and Environmental Studies

ANT 3780 Anthropology of Brazil
ANT 4164 Inca Civilization
ANT 4324 Mexico
ANT 4328 Maya Civilization
ANT 4330 Contemporary Maya Cultures
ANT 4332 Latin America
ANT 4334 Contemporary Latin American Women
ANT 4340 Cultures of the Caribbean
ANT 4343 Cuban Culture and Society
EVR 5065 Ecology of Costa Rican Rainforest
EVR 5066 Ecology of the Amazon Flooded Forest
SYA 4170 Comparative Sociology [Asia & Latin America]
SYD 4630 Latin American and Caribbean Social Structure

Field 4: History

ARH 2020 Latin American Civilization
ARH 3132 The Formation of Latin America
ARH 3200 Latin America: The National Period
ARH 3450 Central America
ARH 3740 Comparative History of Latin American Revolutions
ARH 4433 Modern Mexico
ARH 4482 Cuba: 18th-20th Centuries
ARH 4600 History of Brazil
ARH 4720 Family & Land in Latin America
ARH 4721 History of Women in Latin America
ARH 4750 Law & Society in Latin America

Field 5: Political Science and International Relations & Geography

CPO 3304 Politics of Latin America
CPO 4340 Politics of Mexico
CPO 4323 Politics of the Caribbean
CPO 4303 Politics of South America
GEA 3400 Population & Geography of Latin America
GEA 3320 Population & Geography of the Caribbean
INR 3425 International Relations of Latin America
INR 3246 International Relations of the Caribbean
INR 4247 Caribbean Regional Relations
INR 4244 Latin America in International Politics

Field 6: Economics and Finance

ECS 3401 The Brazilian Economy
ECS 3402 The Political Economy of South America
ECS 3403 Economics of Latin America
ECS 3404 Economic Integration: Latin America
ECS 3430 Economic Development of Cuba
ECS 3431 Economics of the Caribbean Basin
ECS 3432 Economic Integration: Caribbean

Field 7: Fine Arts

ARH 4670 20th Century Latin American Art
DAA 3343 Cultural Dance Forms (Afro-Brazilian Dance)
MUH 3061 Music of Mexico and Central America
MUH 3062 Music of the Caribbean
MUH 3541 Music of Latin America: Folklore & Beyond

Area C: Comparative & Global Studies Courses
The following core courses fulfill certifi-
cate requirements. A minimum of 6
credits must be taken from this list. A
maximum of two tutorial or Independent
Study courses may be taken only with
professors whose area of research is
Asian Studies, and only with approval
from the advisor.

Field 1: Language, Literature and
Culture
LIN 4931 Bilingualism: Heritage
Languages in North America
SPW 3130 Introduction to Spanish
American Literature
SPW 4470 Asia in the 19th Century
Hispanic Literature
SPW 4xxx Eastern Thought and Latin American Litera-
ture. The age of Octavio Paz.

Field 2: Philosophy and Religion
REL 3027 Meditation and Mystical
Traditions
REL 3302 Studies in World
Religions
REL 3170 Ethics in World
Religions
REL 3xxx Sacred Places, Sacred
Travels
REL 3123 Asian Religions in the
Americas
REL 4128 Religions of the Silk
Roads

Field 3: Sociology & Anthropology, and
Environmental Studies
ANT 3403 Cultural Ecology
ANT 4306 The Third World
EVR 4128 Global Perspectives of
Emerging Infectious Diseases
HUM 4491 Cultural Heritage &
Cultural Changes
SSE 4380 Developing a Global
Perspective
SYA 4170 Comparative Sociology
[Asia & Latin America]
SYD 4610 Area Studies: Social
Structures & Problems
SYD 4700 Minorities
SYP 4441 Sociology of World
Development
SYP 4454 Globalization and Society

Field 4: History
WOH 2001 World Civilization

Field 5: Political Science and Interna-
tional Relations & Geography
CPO 3403 Politics of the Middle
East
CPO 4053 Political Repression &
Human Rights
GEA 2000 World Regional
Geography
INR 3081 Contemporary

INR 4283 International Problems
INR 4054 International Relations,
Development & the
Third World
INR 4044 World Resources &
World Order
INR 4024 World Population
Problems
LBS 4653 Labor Movements in
Developing Countries

Field 6: Economics and Finance
ACG 4251 International Accounting
ECO 3704 International Economics
ECO 4703 International Trade
Theory & Policy
ECO 4713 International
Macroeconomics
ECO 4733 Multinational
Corporations
ECO 4701 World Economy
ECS 3003 Comparative Economic
Systems
ECS 3013 Introduction to
Economic Development
EIN 4129 Global Manufacturing &
Production Management
FIN 4615 International Banking
FIN 4604 International Finance
MAN 4600 International
Management
MAN 4610 International and
Comparative Industrial
Relations
MAR 3602 International Business
MAR 4156 International Marketing
MAR 4144 Export Marketing

Field 7: Fine Arts
DAN 4932 Dance Ethnology
MUH 3052 Music of the World

The Certificate in Asian Globalization and Latin America
requires study in three different general
fields from a list of seven possible
fields, and three different regional
areas. These fields represent courses in
Language & Literature, Philosophy &
Religion, Sociology & Anthropology
and Environmental Studies, History,
Political Science and International
Relations & Geography, Economics &
Finance, and Fine Arts. All courses
acceptative towards the certificate deal
with some aspect of Asia, Latin
America, and/or trans-regional issues.
The combination of courses allows for
the student to gain broad-based,
multidisciplinary expertise within a
specialization on Asian globalization
and Latin America.

For more information contact: The
Asian Studies Office, Office, DM 366A,
telephone (305) 348-1914, email:
asiann@fiu.edu, Dr. Steven Hein
Director DM 369A, telephone (305)
348-1788, email heines@fiu.edu, Dr
Theodore R. Young, Associate
Director, DM 353, telephone (305)
348-2894, email: youngtr@fiu.edu;
website: www.fiu.edu/~asian.

Brazil Studies Certificate

Theodore R. Young, Director
(Modern Languages)
Coordination Committee
Janet M. Chernela, (Sociology and
Anthropology)
Eduardo Gamarr, (Political Science)
John B. Jensen, (Modern Languages)
Timothy Power, (Political Science)
Andrea M. Seidel, (Theatre and
Dance)
James Sweet, (History)
Maria Willumsen, (Economics)

The Certificate in Brazilian Studies is
an eighteen credit course of study
designed to offer both pre- and post-
baccalaureate students as well as
degree-seeking students specialization
in various disciplines with regard to
Brazil. The certificate focuses on
Brazil's language and culture, while
allowing the student to include such
fields as Anthropology, Business,
Dance, Environmental Studies, History,
International Relations, and Music as
related to Brazil. Students may apply
toward the certificate up to 5 credits
of language instruction from study abroad
in Brazil through the FIU/UF summer
program in Rio de Janeiro, or from
language courses taken at FIU (see
advisor). Additionally, up to three
credits may be applied for Foreign
Study: Advanced Language and
Literature (POR 4470).

For all students, the certificate
represents a way to gain specialized
knowledge of Brazil and Portuguese
language. For students pursuing a
degree, the certificate should be
understood as a complement to the
student's major area of study. Non-
degree seeking students can use the
certificate as a demonstration of their
understanding of Brazil through its
language, its culture and other areas.

Prescribed Courses and Other
Requirements
Courses are to be chosen from the
following list in consultation with and
approval of the Director. A grade of 'C'
or better is required for all courses (C-is not acceptable).
1. All students are required to demonstrate proficiency in the Portuguese language through the Intermediate level. This may be done by completing one of the following sequences:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POR 1130</td>
<td>Portuguese I</td>
<td>5</td>
</tr>
<tr>
<td>POR 1131</td>
<td>Portuguese II</td>
<td>5</td>
</tr>
<tr>
<td>POR 2200</td>
<td>Intermediate Portuguese</td>
<td>3</td>
</tr>
<tr>
<td>POR 3230</td>
<td>Accelerated Portuguese I</td>
<td>5</td>
</tr>
<tr>
<td>POR 3231</td>
<td>Accelerated Portuguese II</td>
<td>5</td>
</tr>
</tbody>
</table>

Students already demonstrating proficiency in Portuguese may be exempt from this requirement.

1. At least 18 semester hours of courses from the following certificate program course listing, or others approved by the certificate program advisor. Students must take courses from at least three fields among core and electives courses (Fields 1-7). Several fields include both Core and Elective courses. Up to five credit hours may be applied from language requirement courses (see above).

### Section A: Core Courses

The following core courses fulfill certificate requirements. Students may complete all 18 credits from this list, or they may include a maximum of 6 credits from Elective Course List (Section B). A minimum of seven credits must be taken from this list. A maximum of two tutorial or Independent Study courses may be taken only with professors whose area of research is Brazil, and only with approval from the Director. Additional elective courses may be taken from Elective Course list (Section B).

#### Field 1: Economics and Finance

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 4701</td>
<td>World Economy</td>
<td>3</td>
</tr>
<tr>
<td>ECO 4906</td>
<td>Undergraduate Tutorial</td>
<td>1-3</td>
</tr>
<tr>
<td>ECO 5906</td>
<td>Advanced Individual Study</td>
<td>1-3</td>
</tr>
<tr>
<td>ECS 3402</td>
<td>Political Economy of South America</td>
<td>3</td>
</tr>
<tr>
<td>ECS 4403</td>
<td>Latin American Economics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4604</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>MAN 4660</td>
<td>Business in Latin America</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Field 2: Environmental Studies and Botany

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 3663</td>
<td>Tropical Botany</td>
<td>3</td>
</tr>
<tr>
<td>BOT 3723C</td>
<td>Taxonomy of Tropical Plants</td>
<td>4</td>
</tr>
<tr>
<td>BOT 5606</td>
<td>Ethnobotany</td>
<td>3</td>
</tr>
<tr>
<td>EVR 5067</td>
<td>Tropical Forest Conservation and Utilization</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Field 6: Political Science, International Relations, and Latin American Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPO 3055</td>
<td>Authoritarian Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

### Section B: Elective Courses

No more than 6 credits may be selected from the following elective courses with Director's approval (contingent upon course content relating to Brazil). These courses should be understood as a partial list; students should consult with the Director of the certificate program about current course offerings.

#### Field 1: Economics and Finance (additional offerings in Section A)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POR 3421</td>
<td>Review Grammar/Writing II</td>
<td>3</td>
</tr>
<tr>
<td>POR 3500</td>
<td>Luso-Brazilian Culture</td>
<td>3</td>
</tr>
<tr>
<td>POR 3930</td>
<td>Special Topics in Language/Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>POR 4470</td>
<td>Foreign Study: Advanced Language/Literature I-15</td>
<td>3</td>
</tr>
<tr>
<td>POW 4390</td>
<td>Brazilian Cinema</td>
<td>3</td>
</tr>
<tr>
<td>POW 4905</td>
<td>Independent Study I-3</td>
<td>3</td>
</tr>
<tr>
<td>POW 4930</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>PRT 3401</td>
<td>Literature in Translation</td>
<td>3</td>
</tr>
<tr>
<td>ANT 3780</td>
<td>Anthropology of Brazil</td>
<td>3</td>
</tr>
<tr>
<td>Field 7: Fine Arts (additional offerings in Section A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAA 3343</td>
<td>Cultural Dance Forms</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Field 2: Environmental Studies and Botany (additional offerings in Section A)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 5066</td>
<td>Ecology of the Amazon</td>
<td>3</td>
</tr>
<tr>
<td>Field 3: History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAH 4600</td>
<td>History of Brazil</td>
<td>3</td>
</tr>
<tr>
<td>LAH 5905</td>
<td>Readings in Latin American History: History of Brazil</td>
<td>3</td>
</tr>
<tr>
<td>Field 4: Language, Literature and Culture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POR 3400</td>
<td>Advanced Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>POR 3420</td>
<td>Review Grammar/Writing I</td>
<td>3</td>
</tr>
</tbody>
</table>

The Certificate in Brazil Studies requires study in three different general fields from a list of seven possible areas. These fields represent courses in Portuguese, Economics, Finance, Management, Environmental Studies, Botany, History, Sociology and Anthropology, Political Science, International Relations, Latin American Studies, and Music. All courses acceptable towards the certificate deal with some aspect of Brazil, and the combination of courses allows for the student to gain broad-based, multidisciplinary expertise within a specialization on Brazil.

For more information contact: Dr. Theodore R. Young, Director of Academic Programs, Latin American and Caribbean Center, DM 353, Telephone: (305) 348-2894; fax: (305) 348-2593; e-mail: youngtr@fiu.edu

### Comparative Immunology Certificate Program

**Charles H. Bigger, Director (Biological Sciences)**
**Coordinating Committee**
**Victor Apanius, (Biological Sciences)**
**Sylvia Smith, (Biological Sciences)**

This academic certificate provides students with in-depth training in the interdisciplinary research field of Comparative Immunology. In general, Comparative Immunology is the study of the immune responses and defenses of animals other than humans. Research areas include studies in domesticated animal health, the use of animal models for human biomedical research, and the hunt for natural products of biomedical interest. Additionally, in recent years, there has been an increasing interest and concern raised about wild life (terrestrial and aquatic) health and diseases. This field also includes the
Cuban and Cuban-American Studies

Certificate Program

Damián Fernández, Certificate Advisor and Professor, International Relations

The Cuban and Cuban-American Studies Certificate Program provides an opportunity for students to integrate scholarship about Cuba and Cuban-American issues from a variety of disciplines into a comprehensive program of study. The program builds on the strengths of numerous Cubanists teaching at FIU and allows students to benefit from the expertise on matters ranging from the Cuban American exile experience to the impact of Cuba on the world.

Interdisciplinary in nature, the program consists of courses from eleven departments, including Economics, English, History, International Relations, Modern Languages, Political Science, Religious Studies, Sociology and Anthropology, Theater and Dance, and Visual Arts. Students are required to choose courses from four of the various departments to complete the certificate. All degree seeking students, enrolled at FIU qualify for the certificate, which will be awarded upon graduation. It is also available to non-degree seeking students who hold a B.A. from an accredited institution. Courses at the the five-thousand and six-thousand level qualify for the program. However, undergraduates should consult with the professor prior to taking such courses. One independent study course may be submitted to count towards the certificate provided that the final paper is of thematic relevance. A working knowledge of Spanish is recommended.

Certificate Requirements:

Students will be required to take LAH 4482 Cuba: 18th-20th Centuries as well as five other courses from four of the eleven departments indicated for a total of 18 credits. Courses applicable for the certificate are listed every semester in the University's course schedule. To inquire if a specific course meet the certificate requirements please contact an advisor at the Cuban Research Institute.

Students interested in the certificate program should contact the Cuban Research Institute at (305) 348-1991, or e-mail Dr. Damián Fernández at: fernande@fiu.edu.

The following courses fulfill certificate requirements. These courses represent a partial list; students should consult with the certificate program advisor about current course offerings.

**Anthropology**

ANT 4211 Area Studies: Afro-Cuban Religions

ANT 4343 Cuban Culture and Society

**Economics**

ECS 3430 The Economic Development of Cuba/Past and Present

ECS 3431 Economics of the Caribbean Basin

**Modern Languages**

FOL 4930 Special Topics: Hispanic Culture in the U.S.

LIN 5604 Spanish in the United States

SPN 5536 Afro-Cuban Culture

SPN 5537 Special Topics in Afro-Hispanic Culture

SPN 5824 Dialectology of the Spanish Caribbean

SPN 6535 Hispanic Culture in the U.S.

SPW 5934 Special Topics in Language/Literature: Novela Cubana 1900-1950

SPW 6367 Prose and Poetry of Jose Marti

SPW 6389 Cuban Novel and Short Story

**International Relations**

INR 3045 The Global Challenge of Refugees and Migrants

INR 3243 International Relations of Latin America

INR 3246 International Relations of the Caribbean

INR 4931 Topics in International Relations: Cuba in the World

INR 5935 Topics in International Relations: Cuba in the World

**English**

LIT 4356 Literature of the Cuban Diaspora

**History**

AMH 4421 Florida Under Five Flags: Florida History from Pre-contact to 1877

AMH 4914 South Florida History: Research

LAH 3740 Comparative History of Latin American Revolutions

LAH 4471 Colonial Caribbean in Comparative Perspectives

LAH 4482 Cuba: 18th -20th Centuries

LAH 5905 Readings in Latin American History: Cuba 1898-1960

LAH 5935 Topics in Latin American History: Colonial Caribbean in Comparative Perspectives Cuba 18th-20th centuries Slave Trade/African Diaspora

**Undergraduate Catalog**

**College of Arts and Sciences**

ECS 3432 Economic Integration / Caribbean
The Certificate Program in Environmental Studies is designed to provide students in various majors with the unique perspective of interdisciplinary ecological education to both enrich and expand the breadth of their primary training. The Certificate seeks to provide participants with an analytic basis for understanding the milieu of local and global environmental problems and processes.

The program requires no prerequisite and is complementary to majors in all disciplines and schools at the University. This certificate is appropriate also for persons who already have a degree but would like to increase their knowledge of contemporary environmental issues.

The curriculum for the Environmental Studies Certificate consists of six courses (18-20 credits).

I. Two Environmental Science Courses:
- EVR 3011/L Environmental Pollution and Lab 4
- EVR 3013/L Ecology of South Florida and Lab 4

Students with science backgrounds should take instead two environmental science courses from the following:
- EVR 4026 Biotic Resources 3
- EVR 4211 Water Resources 3
- EVR 4231 Air Resources 3
- EVR 4312 Energy Resources 3

II. Two additional courses from the following:
- ANT 3403 Cultural Ecology
- GEO 3421 Cultural Geography
- ECP 3302 Environmental Economics
- EVR 4415 Population and Environment Issues
- EVR 4352 U.S. Environmental Policy
- INR 4350 International Environmental Policy
- PUP 3206 International Law and the Environment
- PUP 4203 Environmental Politics
- REL 3492 Earth Ethics

III. Two additional Environmental Electives from the following:
- AMH 4930 Environmental History
- ANT 3403 Cultural Ecology
- ANT 4552 Primate Behavior and Ecology
- ANT 5548 Ecological Anthropology
- BOT 3014 Plant Life Histories
- BOT 3153 Local Flora & Lab
- BSC 5825 Wildlife Biology
- ECP 3302 Introduction to Environmental Economics
- ECP 4314 Land and Resource Economics
- ENY 4060 Advanced Entomology & Lab
- EVR 3010 Energy Flows in Natural and Man-Made Systems
- EVR 3013 Ecology of South Florida & Lab
- EVR 4026 Biotic Resources
- EVR 4211 Water Resources
- EVR 4231 Air Resources
- EVR 4312 Energy Resources
- EVR 4321 Sustainable Resource Development
- EVR 4323 Restoration Ecology
The College of Arts and Sciences offers the student a program in ethnic studies, in recognition of the place ethnic studies enjoys in the social sciences and humanities, and the importance of ethnic studies in today's world. The program seeks to establish a proper balance between its academic goals and objectives and the ongoing concerns of the University's local and international constituencies. The program contains four specialized areas: Black Studies, Jewish Studies, Cuban Studies, and Comparative Studies.

The Certificate in Ethnic Studies is awarded with a bachelor's degree or upon completion of Certificate requirements, to a student who already possesses that degree. The Certificate will specify the area of concentration chosen by the student.

A student may acquire the Certificate in Ethnic Studies by fulfilling the following requirements:

General Requirements: A minimum of six courses with a grade 'C' or higher.

Courses in both the 'Core' and 'Specialized' areas (indicated below) must be taken from at least two different departments.

A maximum of one course in a relevant language will be accepted.

A maximum of two courses of independent study will be accepted.

The Program Director must approve the student's overall plan and all special topics courses must be approved by Certificate advisors in each area.

The Program is especially eager to encourage programs of study abroad and field work in general. Credit for such programs will be awarded on an individual basis after evaluation by the Director and the Coordinating Committee, but in no case will it consist of more than three courses towards the Certificate.

Specific Requirements
A core of a minimum of two to three courses in a theoretical and conceptual nature in the area of ethnic studies
A minimum of three to four specialized courses in one of the four distinct areas: Black Studies, Jewish Studies, Cuban Studies, Comparative Studies.

Core Courses
SYD 4700 or ANT 4451: Minorities; POS 4314: Ethnic Politics; INR 4084: Ethnicity in World Politics; INR 4024: Ethnicity and Nationality; ECP 3144: Economics of Race and Sex Discrimination; SOP 4444: Attitudes and Ethnicity.

Specialized Courses
(Note: This is not an exhaustive list; students should consult with the Director of the program on current offerings.)

Specialized Courses in Cuban Studies
ECS 4430: The Economic Development of Cuba 3
FOW 4390: Genre Studies (with reference to Cuban Literature) 3
INR 3246: International Relations of the Caribbean 3
SYD 4630: Latin American and Caribbean Social Structures 3
SYA 4124: Social Theory and Third World Innovations 3

Specialized Courses in Black Studies
AML 5305: Major American Literary Figures 3
ANT 4315: Afro-American Anthropology 3
ANT 4352: African Peoples Culture 3
LIT 4188: Regional Literature in English 3
LIT 4930: Special Topics 3
MUH 2116: Evolution of Jazz 3

Specialized Courses in Jewish Studies
GEA 3630: Population and Geography of the Middle East 3
INR 3274: International Relations of the Middle East 3

European Studies Certificate
Joseph F. Patrouch, Acting Director, (History)

Coordinating Committee
Pascale Becel, Modern Languages
Emily Copeland, International Relations
Marian Demos, Humanities
Maria A. Gomez, Modern Languages
Christine Gudorf, Religious Studies
Alan Gummersen, Economics
Constantine Hadjilambros, Environmental Studies
George Kovacs, Philosophy
Lara Kriigel, History
Felice Lifshitz, History

Asher Milbauer, English
Nicol Rae, Political Science
Meri-Jane Rochelson, English

The aim of the European Studies Certificate is to enable students to obtain an interdisciplinary concentration in various aspects of Europe. It is designed to enhance a student's understanding of European politics, society, and culture, drawing on a broad range of courses in the arts and sciences and thereby to complement the student's major course of study. The certificate is also available to non-degree seeking students. Students interested in the program should contact the Director.

Certificate Requirements:
The program requires 15 credit hours (5 courses) from at least three departments, distributed as follows:

Introductory requirement (3 credits from among the following):
CPO 3103: Politics of Western Europe
CPO 3104: Politics of the European Union
INR 3214: International Relations of Europe

Language requirement (3 credits)
One course in a European language at the intermediate level or above (2000 or higher)

Breadth requirement (6 credits)
Two courses, at least one of which must be from outside the social sciences, from an approved list published in the term schedule and available from the Certificate Director. These include courses from the Departments of Economics, English, Environmental Studies, History, Humanities, International Relations, Modern Languages, Philosophy, Political Science, Religion, Visual Arts, and the Honors College. Courses fulfilling the introductory requirement (CPO 3103, CPO 3104, INR 3214) do not count towards the breadth requirement.

Exit Requirement (3 credits)
Interdisciplinary colloquium to be taken during the student's senior year, that will focuses on a broad European topic. In it, each student will be expected to complete a major research project.
Film Studies Certificate Program

The Film Studies Certificate Program enables students to obtain an interdisciplinary concentration in film studies. The certificate program will enable students to study this important field in a rigorous systematic fashion. Film is a major 20th century art form and communication media that transmits culture, influences society, and both reflects and shapes human conduct. Furthermore, film links diverse cultures through depiction of national societies and through language exposure. The Certificate in Film Studies will therefore give recognition to a significant medium that generates innovative theoretical, historical, literary and creative methodologies. The certificate will enhance interdisciplinary connections among Modern Languages, English, Sociology, Anthropology, Architecture, Visual Arts, History, Religious Studies and other departments. The recent alliance between the Miami Film Festival and FIU (FIU Film of Miami) will offer students a unique opportunity to access new films, film archives, film makers, internships and related benefits. This certificate will complement studies in other fields and enable students to obtain an intellectual background in the theories and methodologies of film culture. Moreover, it will enhance students' visual literacy and competency.

This program will require 18 credit hours (6 courses) from the following certificate course listing, or others approved by the certificate program advisor. These courses should be understood as a partial list; students should consult with the advisor of the certificate program about current course offerings. Students are required to take a minimum of two courses from departments other than English.

Course Requirements
FIL 3006 Introduction to Film Studies
ENG 4121 History of Film

Twelve (12) elective credits from the following partial list:
ARC 4030 Film and the Architecture of Modern Life 3
ENC 4355 Writing About Film 3
ENG 3138 The Movies 3
ENG 4119 Film Humor and Comedy 3
ENG 4132 Studies in the Film 3
ENG 4134 Women and Film 3
ENG 4135 The Rhetoric of Cinema 3

FIL 4940 Internship in Film Studies 1-12
ENG 6935 Special Topics in College Pedagogy (when film is the topic) 3
CRW 5620 Advanced Screenwriting Workshop 5
AMH 3317 America and the Movies 3
LAH 4734 Latin American History Through Film 3
HUM 4406 Film and the Humanities 3
FIL 5526 Spanish Film 3
FIL 5527 Latin American Film 3
FRE 4391 French Cinema 3
POW 4390 Brazilian Cinema 3
SPW 4xxx Contemporary Spanish Cinema 3
SPW 4580 El Dorado in Hispanic Literature and Film 3

SPW 5781 The Representation of Women in Spanish Literature and Film 3
SPW 6495 The Latin American Experience Through Literature and Film 3
REL 3111 Religion in Film 3
SYG 4003 Sociology Through Film 3
ARH 4905 Directed Studies (when offered as film studies) 1-6
ARH 5907 Directed Studies (when offered as film studies) 1-6
FIL 3001 Introduction to Film-Making 3
FIL 3201C Film Technique I 3
FIL 4204 Film Technique II 3

Forensic Science Certificate Program

Kenneth G. Furton, Director
(Chemistry/IFRI)
Coordinating Committee
Kalai Mathee, (Biological Sciences)
Janet A. Lineback, (Chemistry)
W. Clinton Terry, (Criminal Justice)

Administered by the International Forensic Research Institute (IFRI) the Certificate in Forensic Science is designed to provide a focus for those students who are interested in pursuing a career in the forensic sciences. The program is suitable for students majoring in biology, chemistry, or an allied discipline who wish to enter the field of forensic science. The program also allows access to persons in the community who are currently working in this area to develop or upgrade their skills.

The field of forensic science is very interdisciplinary, requiring training in the natural sciences, additional training in legal procedures and a required internship. The prerequisite for the forensic science core courses and internship is the equivalent of a minor in chemistry (one year of general chemistry, one year of organic chemistry and one semester of analytical chemistry) and one semester of biological chemistry/biochemistry. Upon completion of the following courses, a student may apply for a certificate in Forensic Science. The certificate will be awarded at the time of awarding the Bachelor's degree, or upon completion of this work if the student already has a Bachelor's degree. The program consists of 16-18 semester credit hours of required coursework as follows:

Required Courses: (12)
CCJ 3020 Overview of Criminal Justice (or cognate) 3
MLS 4440 Forensic Serology 3
CHS 4591 Forensic Science Internship 3
CHS 4503 Forensic Science 3 or
CHS 5xxx Forensic Chemistry 3

Specialized Courses: (4-6) in one of the following specializations

Biology (4)
PCB 4524 Molecular Biology 3
PCB 4524L Molecular Biology Lab 1
Chemistry (5)
CHM 4130 Instrumental Analysis 3
CHM 4130L Instrumental Analysis Lab 2

Criminal Justice (6)
CCJ 3101 Law Enforcement Systems 3
CCJ 3271 Criminal Procedure 3

Medical Laboratory Science (4)
MLS 3605 Clinical Instrumentation 3
MLS 3605L Clinical Instrumentation Lab 1

Elective Courses
Additional recommended courses chosen in consultation with your departmental advisor.

BCH 3033 General Biochemistry 4
BOT 1010 Introductory Botany 3
CHM 4305 Biological Chemistry 3
CHS 4505L Forensic Science Lab 1
GLY 3030 Environmental Geology 3
SOP 4842 Legal Psychology 3
STA 3111 Statistics 1

Gerontological Studies Certificate Program

Barbara Roller, Director (Biological Sciences)
Coordinating Committee
Pamela Elfenbein, (The Center on
Aging)
Joan Erber, (Psychology)
Kenneth Johnson, (English)
Ellen Sprechman, (English)
Nancy S. Wellman, (Dietetics and Nutrition)

The Certificate Program in Gerontological Studies is an undergraduate, academic certificate program designed to complement the student’s major area of study.

The goals of the program are: (1) to stimulate interest in the study of aging; (2) to provide an introduction to the field of gerontology from a multidisciplinary perspective; (3) to provide foundation courses for advanced study in gerontology; and (4) to provide students seeking employment upon graduation with a sound background which will make them attractive to employers.

The State of Florida has the largest percentage of persons over 65. Demographic projections indicate that not only will Florida continue to increase its percentage of older persons, but so will the nation as a whole. Thus, it has become imperative that gerontological knowledge be increased and shared. This is critical, both for individuals to function as informed citizens and for enhanced gerontological teaching, research, and service.

The Certificate Program in Gerontological Studies seeks to meet these needs by providing a multidisciplinary approach to the study of aging. The Certificate in Gerontological Studies is awarded with a bachelor’s degree, or on completion of Certificate requirements when a student already possesses a bachelor’s degree. Interested students should meet with the director early to plan an individualized program to meet the student’s educational or occupational goals.

Certificate Requirements: (17-18)
1. A minimum of six courses, three required courses and three elective courses, must be completed with a grade of ‘C’ or higher in each course.
2. Courses must be taken from at least three different disciplines.
3. Electives must be taken from two different categories listed below.
4. Up to two gerontologically relevant courses taken elsewhere may be accepted by the director.
5. Students should contact the director during registration for a list of certificate courses offered each semester.

Required Courses: (9 credits)
- DEP 4464 Psychology of Aging 3
- SYP 4730 Sociology of Aging 3
- PCB 3241 Physiology of Aging 3

Elective Courses: (8-9 credits)
Aging in the Context of the Life-Span
- DEP 2000 Human Growth and Development 3
- DEP 4407 Current Issues in Aging 3
- FAD 2230 Family Life Cycle 3
- FAD 5450 Human Sexuality 3

Death and Dying
- SYP 4740 Sociology of Death 3
- PHM 4050 Philosophy of Death 3

Health and Rehabilitation
- OTH 3160 Adaptive Living Skills 2
- OTH 3160L Adaptive Living Skills Lab 1
- PHT 3400 Emotional Aspects of Physical Disability 2
- SOP 4834 Psychology of Health and Illness 3
- HME 5255 Independent Living for the Handicapped 3

Nutrition
- HUN 2201 Principles of Nutrition 3
- HUN 4403 Life Cycle Nutrition 3

Public Affairs and Services
- HSA 4113 Issues and Trends in Health Care Delivery 3
- HSA 3103 Health & Social Service Delivery Systems 3

Supervised Research/Practicum/Special Topics: (3 credits)
Students wishing to take an independent research project or an independent practicum in gerontology should: First obtain the collaboration of a faculty sponsor; and second, obtain the approval of the Certificate Director prior to beginning the project by submitting a one-page proposal. Credit will be obtained under the appropriate independent studies course in the faculty advisor’s department. Also, special topics and other courses that have gerontological relevance may be acceptable for credit with permission of the Director.

International Studies
Certificate Program
Damian Fernandez, Director
(International Relations)
Advisory Council
Robert Farrell, (Education)
Laurence Miller, (Library)
Luis Salas, (Criminal Justice)
Mark Rosenberg, (Political Science)

Wunnava Subbarao, (Electrical Engineering)

International Studies constitutes an important focus for the University. The International Studies Program promotes an interdisciplinary approach to the study of transnational phenomena and awards a Certificate to degree and non-degree students who complete successfully its requirements (stated below). Students pursuing a bachelor’s degree may take the Certificate Program to complement their major disciplinary area of study. Those not seeking a degree may take the Certificate Program to obtain a broad and systematic introduction to International Studies. Students interested in this Program should consult with the Director of International Studies.

Program: (Minimum of 18 credits)
At least one of the following courses in International Politics/Relations:
INR 2001 Introduction to International Relations
INR 2002 Dynamics of World Politics
INR 3003 Foundations of International Relations

At least one of the following courses in International Economics/Business:
MAN 3602 International Business
ECO 4701 World Economy
ECO 4703 International Economics

Three semester hours of independent study under faculty supervision during which a research paper will be written. The independent study and the resulting paper must be approved by the program Director. This paper will be discussed in a joint faculty-student seminar.

A minimum of nine semester hours of coursework from courses identified by the program. A list of such courses will be circulated to all students in the program at the start of each semester. Basic competency (two-semester college level) in a language other than English. Language courses where necessary, will not be included as courses within the 18-semester hour coursework requirement.

A minimum grade of ‘C’ in each course taken in the program. Courses must be taken in at least three different departments.

Prerequisites that may be required for courses in the program will not be included as courses within the 12-semester hour coursework requirement.
Judaic Studies Certificate

Program

Steven Heine, (Religious Studies and History), Director
Nina Caputo, (History)
Stephen Fain, (Educational Leadership)
Mitchell Hart, (History)
Nathan Katz, (Religious Studies)
Erik Larson, (Religious Studies)
Abe Lavender, (Sociology)
Charles MacDonald, (International Relations)
Asher Milbauer, (English)
Meri-Jane Rochelson, (English)
Howard Rock, (History)
Oren Stier, (Religious Studies), Associate Director
Mark Szuchman, (History)

The Certificate in Judaic Studies provides students with a multidisciplinary approach to the religion, history, language and literature of Judaism as well as issues in international relations.

The Judaic Studies Certificate requires 18 credits and includes the following:

a) Students must demonstrate a competency in the Hebrew language, at least at the HBR 2200 level, either through coursework or examination. Up to five credit hours of Hebrew language courses may be credited toward the Certificate. Another relevant language such as Yiddish may be substituted.

b) 18 credits from the coursework listed below with at least 3 credits in the Concentration in Pre-Modern History and Religion and 3 credits in the Concentration in Modern Religion and Society.

In addition to the courses listed below, relevant special topics, area studies or comparative studies courses may also be applied. All courses must be approved by the director, and all must be passed with "C" or better.

Students are encouraged to attend lectures and workshops sponsored by the Institute for Judaic and Near Eastern Studies. For more information contact the Institute at (305) 348-1914 or judaic@fiu.edu.

Language Courses: (5 credits)
HBR 1120 Hebrew I
HBR 1121 Hebrew II
HBR 2200 Intermediate Hebrew

HBR 3100 Biblical Hebrew I
HBR 3101 Biblical Hebrew II

Concentration in Pre-Modern History and Religion: (at least 3 credits)
EUH 4xxx Apocalypse and Millennium in the Middle Ages
EUH 4xxx Judaism and Christianity in Contact and Conflict
REL 3209 Dead Sea Scrolls
REL 3220 Moses, Priest, and Prophets
REL 3320 Moses, Jesus, and Mohammed
REL 3380 Biblical Archeology
REL 3600 Judaism
REL 3625 Introduction to Talmud
REL 3921 Jewish Mysticism
REL 3990 Women in the Bible
REL 4224 Prophets and Israel
REL 4312 Jews of Asia
WOH 3281 Jewish History to 1750

Concentration in Modern Religion and Society: (at least 3 credits)
AML 4300 Major American Jewish Writers
ENG 3138 The Movies (Jewish Cinema)
ENG 4132 Film and the Holocaust
EUH 4033 Nazism and the Holocaust
INR 3045 The Global Challenge of Refugees and Migrants
INR 3274 International Relations of Middle East
LIT 3170 Topics in Literature and Jewish Culture
REL 3194 The Holocaust
REL 3630 American Judaism
REL 3672 Religion and Society in Israel
REL 4613 Modernization of Judaism
WOH 3282 Modern Jewish History

For more information contact: The Institute for Judaic and Near Eastern Studies, telephone (305) 348-1914; email: judaic@fiu.edu; website: www.fiu.edu/~judaic.

Required Courses: (12 hours)
LBS 3001 Introduction to Labor Studies
Minimum of three courses (9 hours) to be chosen from the following:
AML 4000 Labor and Culture
AML 4010 Labor Unions
LIT 4035 Labor Literature
LIT 4036 Labor Poet

Elections (6 hours)
AMH 3270 Contemporary U.S. History
AMH 4500 United States Labor History
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics
ECO 3101 Intermediate Microeconomics
ECO 4622 Economic Development of U.S.
ECO 4701 World Economy
ECP 3123 Economics of Poverty
ECP 4203 Introduction to Labor Economics

Labor Studies Certificate

Program

Margaret G. Wilson, Certificate Director, (Labor Studies)
Dawn Adly, (Labor Studies)
Guillermo Grenier, (Labor Studies)
Thomas Humphries, (Labor Studies)
Bruce Nissen, (Labor Studies)

The Certificate in Labor Studies is an 18 credit course of study designed to offer degree-seeking students from a wide range of backgrounds an understanding of the major issues in the field. Courses must be taken from at least two disciplines other than Labor Studies. The Certificate is also appropriate for students who already have a degree and would like to acquire additional knowledge about various facets of the field of Labor Studies. Labor Studies as a discipline acknowledges insights which have emerged from decades of university-union cooperation in labor education and fulfills an academic need to study labor affairs apart from the traditional framework of industrial relations.

According to this concept, Labor Studies is the academic examination of issues which confront people in the pursuit of their need for rewarding employment. The focus of inquiry is on workers as individuals, as members and/or leaders in their unions or associations, and as citizens of their communities.

Courses must be taken from at least two disciplines in addition to Labor Studies. Minimum of 18 credit hours for certificate. Courses are to be selected in consultation with advisor. A grade of 'C' or better is required for all courses. (C- is not acceptable).

Required Courses: (12 hours)
LBS 4101 Theories of the Labor Movement
LBS 4210 Women and Work in the United States
LBS 4501 Labor Law
LBS 4900 Directed Study in Labor Studies
SYO 4360 Work & Society

Electives (6 hours)
AMH 3270 Contemporary U.S. History
AMH 4500 United States Labor History
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics
ECO 3101 Intermediate Microeconomics
ECO 4622 Economic Development of U.S.
ECO 4701 World Economy
ECP 3123 Economics of Poverty
ECP 4203 Introduction to Labor Economics
Labor Studies and Labor Relations Professional Certificate Program
Margaret G. Wilson, Certificate Director, (Labor Studies)
Dawn Addy, (Labor Studies)
Guillermo Grenier, (Labor Studies)
Thomas Humphries, (Labor Studies)
Bruce Nissen, (Labor Studies)

The Professional Certificate in Labor Studies and Labor Relations is an eighteen credit course of study designed to offer both pre and post-baccalaureate as well as degree-seeking students the opportunity to gain broad-based knowledge about the field of labor studies with its focus upon the examination of the issues which confront people in the pursuit of their need for rewarding employment as well as insights from the field of labor relations with its emphasis upon the formal interactions between labor and management. In addition, students will obtain specialized knowledge in one of three tracks of professional study: Track I: Labor Relations and Collective Bargaining; Track II: Labor Leadership; or Track III: Workplace Policy.

Students who are interested in the practical as well as the more theoretical issues of labor studies and labor relations will be especially interested in this certificate.

Courses should be taken from at least one discipline in addition to Labor Studies. Minimum of eighteen credit hours for certificate. Courses are to be selected in consultation with and agreement of advisor.

Track I: Labor Relations and Collective Bargaining. A grade of "C" or better is required for all courses. "C-" is not acceptable. At least one course should be taken from a discipline other than Labor Studies.

Required Courses (6 hours minimum)
All students are required to take LBS 3001, Introduction to Labor Studies, and a minimum of one more course from the list of Core Courses. Additional Core Courses may be used to fulfill electives.

LBS 3470 Labor Contract
    Administration
LBS 3943 Internship in Labor Studies
LBS 4150 Contemporary Labor Issues
LBS 4401 Labor Contract
    Negotiations
LBS 4461 Labor Dispute
    Resolution
LBS 4501 Labor Law
LBS 4905 Topics in Labor Studies
LBS 4900 Directed Study in Labor Studies

Electives Courses (12 hours):
These courses are to be chosen in consultation with and approval of Certificate advisor. Some courses may require prerequisites. These courses represent a partial list; students should consult with Certificate advisor about current course offerings.

AMH 4500 U.S. Labor History
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics
ECP 3203 Introduction to Labor Economics
EDF 4214 Teachers and the Law
EIN 4214 Safety in Engineering
EIN 4261 Industrial Hygiene
EVT 4280 Occupational Safety & Health
HFT 4234 Union Management Relations
INP 2002 Introductory Industrial/Organizational Psychology
LBS 4610 Cross Cultural Dimensions of Latin American Labor Relations

LBS 4101 Theories of the Labor Movement
LBS 4210 Women and Work in the United States
LBS 4260 Union Leadership and Administration
LBS 4930 Topics in Labor Studies
LBS 4654 Comparative and International Labor Studies
LBS 5464 Labor Arbitration
MAN 4401 Collective Bargaining
MAN 4410 Union Management Relations
PAD 3034 Public Policy and Its Administration
PAD 3438 Communication Skills for Public Administrators
PAD 4024 Concepts and Issues in Public Administration
PAD 4223 Public Sector Budgeting
SPE 2600 Public Speaking
SYO 4360 Work & Society

Track II: Labor Leadership. With the permission of the Certificate Program advisor, a maximum of two courses (6 hours) may be taken on a P/F basis. All other courses must be taken for a letter grade. For all courses taken for a letter grade, a "C" or better is required. "C-" is not acceptable. At least one course should be taken from a discipline other than Labor Studies.

Required Courses (12 hours minimum)
All students are required to take LBS 3001, Introduction to Labor Studies, and a minimum of three additional courses from the list of Core Courses. Additional Core Courses may be used to fulfill electives.

LBS 3470 Labor Contract
    Administration
LBS 4150 Contemporary Labor Issues
LBS 4260 Union Leadership/Administration
LBS 4401 Labor Contract
    Negotiations
LBS 4461 Labor Dispute
    Resolution
LBS 4501 Labor Law
LBS 4905 Topics in Labor Studies
LBS 4900 Directed Study in Labor Studies

Electives Courses (6 hours):
These courses are to be chosen in consultation with and approval of Certificate advisor. Some courses may require prerequisites. These courses represent a partial list; students should
consult with Certificate advisor about current course offerings.

AMH 4500 U.S. Labor History
EIN 4214 Safety in Engineering
EIN 4261 Industrial Hygiene
LBS 4101 Theories of the Labor Movement
LBS 4210 Women and Work in the United States
LBS 4610 Cross Cultural Dimensions of Latin American Labor Relations
LBS 4654 Comparative and International Labor Studies
LBS 4900 Directed Study in Labor Studies
LBS 5464 Labor Arbitration
PAD 3034 Public Policy and Its Administration
PAD 3438 Communication Skills for Public Administrators
PAD 4223 Public Sector Budgeting
SPC 2600 Public Speaking
SYO 4360 Work & Society

Track III: Workplace Policy. A grade of "C" or better is required. "C-" is not acceptable. At least one course should be taken from a discipline other than Labor Studies.

Required Courses: (6 hours minimum)

All students are required to take LBS 3001, Introduction to Labor Studies, and a minimum of one more course from the list of Core Courses. Additional Core Courses may be used to fulfill electives.

LBS 3943 Internship in Labor Studies
LBS 4154 Workers and Diversity
LBS 4101 Theories of the Labor Movement
LBS 4210 Women and Work in the United States
LBS 4501 Labor Law
LBS 4654 Comparative and International Labor Studies
LBS 4905 Topics in Labor Studies
LBS 4900 Directed Study in Labor Studies
LBS 4610 Cross Cultural Dimensions of Latin American Labor Relations
INR 3045 Global Challenges of Refugees and Migrants
MAN 3701 Business and Society
MAN 4741 Business Environment and Policy Formation
PAD 3034 Public Policy and Its Administration
PUP 4004 Public Policy (U.S.)
SYO 4360 Work and Society

Electives Courses: (12 hours)

These courses are to be chosen in consultation with and approval of Certificate advisor. Some courses may require prerequisites. These courses represent a partial list; students should consult with Certificate advisor about current course offerings.

EDF 4780 The Teacher and the Law
EVT 4280 Occupational Safety/Health
HFT 3603 Law as Related to Hospitality Industry
INP 2002 Introduction to Industrial/Organizational Psychology
LBS 3470 Labor Contract Administration
LBS 4150 Contemporary Labor Issues
LBS 4401 Labor Contract Negotiations
LBS 4461 Labor Dispute Resolution
PAD 4024 Concepts/Issues in Public Administration
PAD 4223 Public Sector Budgeting
PAD 4432 Administration Leadership and Behavior
POS 2042 Government & Politics of the U.S.
POS 4122 State Government and Politics
PUP 4004 Public Policy: U.S.
SYA 3300 Research Methods
SYP 4421 Man, Society and Technology

Latin American and Caribbean Studies Certificate Program

Theodore R. Young, (Director and Associate Professor, Modern Languages)

The program in Latin American and Caribbean studies at Florida International University represents a significant way in which the University fulfills its commitment to advancing international understanding. The program, offered through the Latin American and Caribbean Center (LACC), encourages students to take an interdisciplinary approach to this important area by awarding a certificate to both degree and non-degree seeking students who successfully complete the requirements. For students pursuing a degree, the certificate program should be understood as a complement to the student’s major area or discipline of study. For non-degree seeking students, the certificate represents a means of gaining a fuller, more complete understanding of Latin America and the Caribbean without pursuing a lengthy course of study at the University.

Students registered in the certificate program receive regular mailings announcing course offerings, seminars, foreign study opportunities, and other special events. They also receive LACC News, a newsletter reporting on people and activities concerning Latin American and Caribbean affairs at the university.

LACC has sponsored summer study abroad opportunities since 1981 in Mexico, Costa Rica, Puerto Rico, Barbados, Brazil, Haiti, Belize, and the Dominican Republic. In addition, LACC has placed certificate students in summer programs sponsored by the Organization of American States in Argentina and Costa Rica.

An important component of the certificate program is the library’s Latin American and Caribbean holdings, which now exceed 35,000 volumes. Regionally, the collection is strongest in works on Cuba and Central America, with substantial strength in Caribbean countries as well. The library’s Latin American and Caribbean Collection receives about 45 periodicals and eight daily or weekly newspapers (this is in addition to 120 Latin American and Caribbean-related publications that can be found in the library’s general periodical section). LACC also has its own collection of approximately 150 publications, primarily newsletters and research report series. Moreover, the audio-visual section of the library contains films and video recordings on Latin America and the Caribbean and an extensive slide collection of Latin American art works.

Certificate Requirements:

1. At least 15 credit hours of courses with a grade of 'C' or better from the certificate program course listing, or approved by the certificate program faculty advisor. Courses must be taken in at least three different disciplines and from at least two disciplines outside of the student’s departmental major.

2. A two-course, introductory language sequence at FIU in Spanish, Portuguese, or French. Exemption from
this requirement may be obtained through a proficiency examination administered by the FIU Department of Modern Languages. Language courses may not be counted toward the fulfillment of requirement (1) above.

3. A minimum of three semester hours of independent study under the supervision of a certificate program faculty member or other instructor approved by the certificate program faculty advisor. As part of this requirement, the student will prepare a research paper on a theme directly concerned with some aspect of Latin American and Caribbean affairs.

Students interested in the certificate program should consult LACC’s student advisor. Call (305) 348-2894 for an appointment, or email: MALACS@fiu.edu.

The following courses fulfill certificate requirements. These courses represent a partial list; students should consult with certificate program advisors about current course offerings.

**Anthropology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ANT 3144</td>
<td>Prehistory of the Americas</td>
<td>3</td>
</tr>
<tr>
<td>ANT 3251</td>
<td>Peasant Society</td>
<td>3</td>
</tr>
<tr>
<td>ANT 3403</td>
<td>Cultural Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 4211</td>
<td>Afro-Cuban Religion</td>
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<tr>
<td>ANT 4224</td>
<td>Tribal Art</td>
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<td>ANT 4306</td>
<td>The Third World</td>
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<td>ANT 4324</td>
<td>Mexico</td>
<td>3</td>
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<tr>
<td>ANT 4328</td>
<td>Maya Civilization</td>
<td>3</td>
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<tr>
<td>ANT 4330</td>
<td>Contemporary Maya Cultures</td>
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<td>ANT 4332</td>
<td>Latin America</td>
<td>3</td>
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<td>ANT 4334</td>
<td>Latin American Women</td>
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<td>ANT 4340</td>
<td>Cultures of the Caribbean</td>
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<td>ANT 4343</td>
<td>Cuban Culture and Society</td>
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**Economics**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>ECO 4701</td>
<td>The World Economy</td>
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<td>ECO 4703</td>
<td>International Economics</td>
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<td>ECO 4733</td>
<td>Multinational Corporations</td>
<td>3</td>
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<tr>
<td>ECO 5709</td>
<td>The World Economy</td>
<td>3</td>
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<td>ECS 3401</td>
<td>Brazilian Economy</td>
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<tr>
<td>ECS 3402</td>
<td>The Political Economy of South America</td>
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<td>ECS 4013</td>
<td>Economic Development of Latin America</td>
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<td>ECS 4403</td>
<td>Economic Integration: Latin America</td>
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<td>ECS 4404</td>
<td>The Economic Development of Cuba: Past and Present</td>
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**Education**

<table>
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<tr>
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<tbody>
<tr>
<td>SSE 4380</td>
<td>Developing a Global Perspective</td>
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<tr>
<td>GLY 3157</td>
<td>Elements of Caribbean Geology</td>
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<tr>
<td>GLY 5621</td>
<td>Caribbean Stratigraphic Micropaleontology</td>
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<td>GLY 5785</td>
<td>Caribbean Shallow-Marine Environments</td>
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**History**

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<tr>
<td>LAH 2020</td>
<td>Latin American Civilization</td>
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<tr>
<td>LAH 2092</td>
<td>The Latin Americans</td>
<td>3</td>
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<tr>
<td>LAH 3132</td>
<td>The Formation of Latin America</td>
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<tr>
<td>LAH 3200</td>
<td>Latin America: The National Period</td>
<td>3</td>
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<td>LAH 3450</td>
<td>Central America</td>
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<tr>
<td>LAH 4433</td>
<td>Modern Mexico</td>
<td>3</td>
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<tr>
<td>LAH 4482</td>
<td>Cuba: 18th-20th Centuries</td>
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<td>LAH 4511</td>
<td>Argentina: 1776- Present</td>
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<tr>
<td>LAH 4600</td>
<td>History of Brazil</td>
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<td>LAH 4720</td>
<td>Family/Land in Latin America</td>
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<td>LAH 4750</td>
<td>Law/Society in Latin America</td>
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<tr>
<td>LAH 4932</td>
<td>Topics in Latin American History</td>
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**International Business**

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<tbody>
<tr>
<td>ACG 4251</td>
<td>International Accounting</td>
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<tr>
<td>MAN 3602</td>
<td>International Business</td>
<td>3</td>
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<tr>
<td>MAN 4600</td>
<td>International Management</td>
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<td>MAN 4610</td>
<td>International and Comparative Industrial Relations</td>
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<td>MAN 6601</td>
<td>International Management</td>
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<td>MAN 6608</td>
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**Philosophy and Religion**

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<td>PHH 3042</td>
<td>Latin American Philosophy</td>
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<tr>
<td>REL 4481</td>
<td>Contemporary Latin American Religious Thought</td>
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**Political Science**

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<th>Course Code</th>
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<tr>
<td>CPO 3055</td>
<td>Authoritarian Politics</td>
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<tr>
<td>CPO 3304</td>
<td>Politics of Latin America</td>
<td>3</td>
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<tr>
<td>CPO 4034</td>
<td>Politics of Development and Underdevelopment</td>
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<tr>
<td>CPO 4053</td>
<td>Political Repression and Human Rights</td>
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**Modern Languages**

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<th>Course Code</th>
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<tr>
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<td>Haitian Creole</td>
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<tr>
<td>FRE 3500</td>
<td>History of French Civilization</td>
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<td>FRE 4501</td>
<td>Contemporary French Society</td>
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<tr>
<td>POR 3500</td>
<td>Luso-Brazilian Culture</td>
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<tr>
<td>PW 4390</td>
<td>Brazilian Cinema</td>
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<tr>
<td>PW 4930</td>
<td>The Literature of Brazil</td>
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<tr>
<td>SPN 3520</td>
<td>Spanish American Culture</td>
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<td>Spanish Culture</td>
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<td>SPW 3371</td>
<td>The Latin American Short Story</td>
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<td>SPW 3520</td>
<td>Prose and Society</td>
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<td>SPW 4304</td>
<td>Latin American Theatre</td>
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<tr>
<td>SPW 4351</td>
<td>Spanish American Poetry</td>
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<td>SPW 4352</td>
<td>Spanish American Poetry</td>
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<tr>
<td>SPW 4364</td>
<td>The Spanish American Essay</td>
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<tr>
<td>SPW 5237</td>
<td>The Traditional Spanish American Novel</td>
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<tr>
<td>SPW 5286</td>
<td>Contemporary Spanish American Novel</td>
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<td>SPW 5358</td>
<td>Prose and Poetry of Jorge Luis Borges</td>
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<td>SPW 5359</td>
<td>Poetry of Pablo Neruda</td>
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<td>SPW 5575</td>
<td>Spanish American Modernism</td>
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**Marketing**

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<tr>
<td>MAR 4156</td>
<td>International Marketing</td>
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<td>MAR 4803</td>
<td>Cases in Marketing Management</td>
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<td>MAR 4144</td>
<td>Export Marketing</td>
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**Geology**

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<td>GLY 3157</td>
<td>Elements of Caribbean Geology</td>
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<td>GLY 5621</td>
<td>Caribbean Stratigraphic Micropaleontology</td>
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<tr>
<td>GLY 5785</td>
<td>Caribbean Shallow-Marine Environments</td>
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**Politics of South America**

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<tr>
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<th>Course Title</th>
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<tr>
<td>CPO 4303</td>
<td>Politics of South America</td>
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<tr>
<td>CPO 4323</td>
<td>Politics of the Caribbean</td>
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<tr>
<td>CPO 4333</td>
<td>Politics of Central America</td>
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<td>CPO 4340</td>
<td>Politics of Mexico</td>
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<td>CPO 4360</td>
<td>Cuban Politics</td>
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<tr>
<td>CPO 5036</td>
<td>Politics of Development</td>
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Law, Ethics and Society
Certificate Program
Kenneth Rogerson, Director
Coordinating Committee
Colton Campbell, (Political Science)
Kenneth Henley, (Philosophy and Religion)
Stephen Fjellman, (Sociology/Anthropology)

This program offers a course of studies in the broad field of normative or value issues. The program seeks to develop a curriculum which will study these issues from a variety of perspectives. From philosophy we offer courses in ethical theory, social and political theory, and various applied ethical courses in medical ethics, business ethics, environmental ethics, and so on. From political science the student sees how normative issues are considered in law and politics. In this context it is appropriate to have courses dealing with constitutional interpretation of rulings like affirmative action, environmental regulation and the like. From sociology and anthropology the student takes courses dealing with how values are incorporated in our society and how such values compare to other societies around the world.

Required Courses:
1. The certificate requires six (3 credit) courses from the following lists.

2. Two core (starred) courses are required.
3. Of the six courses, including core courses, at least one course must be taken from each of the following categories—Ethics, Law, and Society

   Law
   PHM 3400 Philosophy of Law*
   POS 3604 Constitutional Law: Limit*
   POS 3603 Constitutional Law: Powers*
   POS 3283 The Judicial Process
   POS 4944 Judicial Internship
   SOP 4842 Legal Psychology
   PSY 4930 Women, Law and Social Psychology
   INR 3403 International Law
   CCJ 4252 Criminal Justice and the Constitution
   CCJ 4280 Law and Criminal Justice
   POT 3054 Modern Political Theory
   PHM 4430 Topics in Philosophy of Law

   Ethics
   PHI 3601 Ethics*
   PHI 3638 Contemporary Ethical Issues*
   PHI 4633 Biomedical Ethics
   POT 3621 Theories of Justice
   PSM 3200 Social and Political Philosophy
   PSM 4360 Topics in Political Philosophy
   PSM 4050 Philosophy of Death
   HSA 5455 Ethical Decisions in Health Services Administration
   INR 4090 Ethical Problems in International Relations
   PSM 4360 Topics in Political Philosophy

   Society
   ISS 3330 Ethical Issues in Social Science Research*
   POT 3302 Political Ideologies
   SYG 3320 Social Deviancy
   SYG 2010 Social Problems
   ANT 3302 Anthropology of Sex and Gender
   CPO 4057 Political Violence and Revolution
   PAD 4040 Public Values, Ethics and Morality in a Changing Environment
   PAD 5041 Values and Technology in Modern Society
   POT 3054 Modern Political Theory

Legal Translation and Court Interpreting Certificate Program

This professional certificate program provides a theoretical basis and practical experience to prepare the student for the legal translation and interpretation fields (E-S and S-E). This curriculum offers both preparatory and professional development training for interpreting in the legal, medical, and business settings. Through its academic track, it offers complementary studies for the practitioner who wants to strengthen his or her competence in the field. The program consists of 30 semester credit hours.

Prerequisites
ENC 3200 Business Letters and Reports 3
SPN 3302 Review Grammar and Writing 3
No credits allowed.

Core Courses: (12)
SPT 3800 Introduction to Translation 3
SPT 3812 Introduction to Interpreting 3
SPT 4801 Translation Practica 3
SPT 4802 Oral Translation Practica 3

Required Program Courses: (12)
SPT 4803 Practica in Legal Translation 3
SPT 4804 Practica in Legal Interpretation 3
SPT 4940 Judicial Translation/Interpretation Internship 3
SPT 4813 The Interpreter and Language 3
SPT 4806 Oral Skills for Interpreters 3

Electives: (6)
BUL 5105 Legal Environment of Business 3
BUL 4111 Business Law I 3
CCJ 3011 The Nature and Causes of Crime 3
CCJ 3020 An Overview of Criminal Justice 3
CCJ 3101 Law Enforcement System 3
CCJ 3290 Judicial Policy Making 3
CCJ 4280 Law and Criminal Justice 3
CCJ 4331 Probation, Parole and Community Program 3
CCJ 4662 Criminal Justice and the Minority Community 3
INR 3403 International Law 3
POS 3283 The Judicial Process 3
Other electives may be chosen with approval of the Program Director.

Linguistics Studies Certificate Program
Lynn Berk, Director (English)
Coordinating Committee
Isabel Castellanos, (Modern Language)
Tommetro Hopkins, (English)
John Jensen, (Modern Languages)
Ana Roen (Modern Languages)
Peter Machonis, (Modern Languages)
Feryal Yavas, (English)
Mehmet Yavas, (English)

In addition to an M.A. in Linguistics, the University offers a Certificate acknowledging that a student has demonstrated competence in course work pertaining to the study of linguistics. This Certificate is designed to meet the needs of those who have a general interest in linguistics studies, as well as those for whom work in linguistics would assist in career planning or advancement. Both undergraduate and graduate students are eligible to earn the certificate.

A student can acquire a Certificate in Linguistic Studies by fulfilling the following requirements:
- The successful completion of at least six courses in linguistics or linguistics-related courses. These courses are listed below.
- Students should consult a Certificate advisor in selecting courses.

With the advice of the Coordinating Committee, the student is encouraged to attain some degree of proficiency in a language other than his or her native language.

In addition to the requirements noted above, all of the requirements for obtaining a bachelor's degree from the University must be met, or the student must possess a bachelor's degree from another institution.

A Coordinating Committee representing various fields, will advise students and grant the Certificate.

A student wishing to earn a Linguistics Studies Certificate will choose courses from the following list of offerings:
- Required Courses
- LIN 3010 General Linguistics 3
- or
- LIN 3013 General Linguistics 3
- LIN 5018 Introduction to Linguistics 3
- LIN 4680 Modern English Grammar 3
- or
- FRC 4800 Contrastive Morphology 3
- or
- SPN 4802 Contrastive Syntax 3
- or
- LIN 5501 English Syntax 3

Four additional courses (12)
Any course with an LIN prefix fulfills this requirement with the exception of LIN 3670 - Grammatical Usage. Linguistics courses with FOL, FRC, POR, and SPN prefixes also fulfill this requirement. You must receive permission from a Coordinating Committee member to take courses with these prefixes. PHI 4221 (Philosophy of Language), PHI 4222 (Philosophy of Dialogue), and HMF 4302 (Mathematical Logic) also fulfill this requirement.

Portuguese Interpretation Studies Certificate Program
John B. Jensen, (Modern Languages)
Coordinating Committee
Theodore R. Young, (Modern Languages)
Erik Camayd-Freixas, (Modern Languages)

The Portuguese Interpretation Studies professional certificate offers sequences of courses designed to help prepare bilingual speakers to work professionally in the fields of Portuguese-English and English-Portuguese translation (that is, written documents), or interpretation (oral translation). Courses provide both the theoretical bases for the work and extensive practice. Because classes are small and most class work is individualized, the program is intended to meet the needs of both students with no prior experience and of working professionals.

Language Preparation:
The language competence required for success in the program is such that students must have either a strong heritage capability in Portuguese, with native competence in English, or must have acquired both English and Portuguese through formal study and significant residence where they are the national tongues. Students may need to enhance their formal knowledge of one or both of their languages through specific course work, upon advice from the Program Director. It is not anticipated that students whose only contact with the second language has been in the classroom will be sufficiently prepared to undertake the Certificate.

Core Courses (12):
PRT 3810 Introduction to Portuguese Translation and Interpretation 3
PRT 3812 Portuguese Interpretation I 3
PRT 4813 Portuguese Interpretation II 3
PRT 4814 Portuguese Interpretation III 3

Electives (6):
At least one of the two courses must be from the language area; the second course may be in language, or culture/social studies. Other courses may also be acceptable upon approval.

Language
POR 3400 Advanced Oral Portuguese 3
SPC 2050 Voice and Diction 3
SPC 2600 Public Speaking 3
LIN 3010 General Linguistics 3
LIN 5211 Applied Phonetics (pre: LIN 3010) 3
SPT 4806 Oral Skills for Interpreters 3

Culture/Social Studies
POR 3500 Luso-Brazilian Culture 3
LAH 4600 History of Brazil 3
LAH 2020 Latin American Civilization 3
AMH 2000 Origins of American Civilization 3
AMH 2002 Modern American Civilization 3
LAH 3718 History of US-Latin American Relations 3

A grade of "C" or better is required in all courses (C- is not acceptable). Nonetheless, students who had taken required courses before announcement of the Certificate may appeal to have one of those previously taken courses counted with a grade of "P" (taken on a Pass-Fail basis).

Students who wish to complete both the Translation Certificate and the Interpretation Certificate may count PRT 3810 and ONE Cultural/Social Studies course toward both certificates.

Portuguese Translation Studies Certificate Program
John B. Jensen, (Modern Languages)
Coordinating Committee
Theodore R. Young, (Modern Languages)
Erik Camayd-Freixas, (Modern Languages)

The Portuguese Translation Studies professional certificate offers sequences of courses designed to help prepare bilingual speakers work professionally in the fields of Portuguese-English and English-Portuguese translation (that is, written documents), or interpretation (oral translation). Courses provide both the theoretical bases for the work and extensive practice. Because classes are small and most class work is individualized, the program is intended to meet the needs of both students with no prior experience and of working professionals.

Language Preparation:
The language competence required for success in the program is such that students must have either a strong heritage capability in Portuguese, with native competence in English, or must have acquired both English and Portuguese through formal study and significant residence where they are the national tongues. Students may need to enhance their formal knowledge of one or both of their languages through specific course work, upon advice from the program Director. It is not anticipated that students whose only contact with the second language has been in the classroom will be sufficiently prepared to undertake the Certificate.

Core Courses (12):
PRT 3810 Introduction to Translation and Interpretation 3
PRT 3800 Portuguese Translation 13
PRT 4801 Portuguese Translation II 3
PRT 4802 Portuguese Translation III 3

Electives (6):
At least one of the two courses must be from the language area; the second course may be in language, or culture/social studies. Other courses may also be acceptable upon approval.

Language
POR 3500 Portuguese for Business 3
POR 3421 Review Grammar and Writing II 3
ENC 4240 Business Letters and Reports 3
ENC 2301 Expository Writing 3
ENC 3211 Report and Technical Writing 3
CRW 2001 Introduction to Creative Writing 3
LIN 3010 Introduction to General

Linguistics 3

Culture/Social Studies
POR 3500 Luso-Brazilian Culture 3
LAH 4600 History of Brazil 3
LAH 2020 Latin American Civilization 3
AMH 2000 Origins of American Civilization 3
AMH 2002 Modern American Civilization 3
LAH 3718 History of US-Latin American Relations 3

A grade of “C” or better is required in all courses (C- is not acceptable). Nonetheless, students who have taken required courses before announcement of the Certificate may appeal to have one of those previously taken courses counted with a grade of “P” (taken on a Pass-Fail basis).

Students who wish to complete both the Translation Certificate and the Interpretation Certificate may count PRT 3810 and ONE Cultural/Social Studies course toward both certificates.

Pre-Modern Cultures Certificate

The Pre-Modern Cultures Certificate Program is an eighteen credit course of study intended to enable students to gain an interdisciplinary concentration in various aspects of pre-modern culture (after the turn of the first millennium and before AD 1700). It is designed to enhance an undergraduate’s understanding of the pre-modern cultures of the globe, and particularly to complement that student’s major courses of study in fields such as Anthropology, English, History, Humanities, Modern Languages, Philosophy, Religious Studies and Visual Arts by familiarizing them with additional disciplinary approaches. The Certificate permits the in-depth exploration of one cultural area during Pre-Modernity, while developing a familiarity with analogous eras in other parts of the world, thus providing the student with both trans-temporal and cross-cultural comparative perspectives.

Courses are to be chosen from the following list in consultation with and approval of a member of the Steering Committee or other faculty advisor. A grade of “C” or better is required for all courses (“C-“ is not acceptable). This listing should be understood as a partial list. Students should consult with an advisor for the certificate program about current course offerings.

At least 18 semester hours from the following certificate program course listing, or others approved by the certificate program advisor. Students must take two Introductory Core classes. The four remaining courses are to be drawn from the disciplinary Concentration Areas. Of the total six courses counted towards the certificate, four must be from a base region and two from the comparative region. The regions are defined as Africa, Asia, Europe, Latin America and North America. Up to two courses which deal with the entire World may be counted toward fulfillment of either the base or comparative region requirement. For example, one course of study might include pre-modern courses distributed as two World, two Asia, and two Latin America, while another might include pre-modern courses distributed as four Europe and two World. The steering committee will occasionally offer special comparative courses, some team-taught, which will substitute for any Core or Concentration Area course. Students may substitute a maximum of two independent studies for Concentration Area classes with the written approval of the Program Director. Special topics and other relevant courses (for example Study Abroad Programs or participation in archeological digs) may be substituted with the written approval of the Program Director. Students are strongly encouraged to study relevant languages.

Introductory Core Courses (18)

LIT 2110 World Literature
AMH 2000 Origins of American Civilization
EUH 2011 Western Civilization: Early European Civilization
EUH 2021 Western Civilization: Medieval to Modern Europe
LAH 2020 Latin American Civilization
WOH 2001 World Civilization
ARH 2050 Art History Survey
ENL 2011 Survey of British Literature
IND 2100 History of Interiors I
ARC 2701 History of Architecture I
GLY 2072 Earth’s Climate and Global Change
ANT 3101 Introduction to Archeology
Undergraduate Catalog

ARH 4352 Pre-Columbian Art of the Americas

College of Arts and Sciences

REL 3320 Moses, Jesus, and Muhammad

REL 3325 Religions of Classical Mythology

REL 3330 Religions of India

REL 3510 Early Christianity

REL 3551 Mary and Jesus

REL 3625 Introduction to Talmud

REL 4251 Jesus and Paul

REL 3520 Medieval Christianity

REL 3330 Protestantism

REL 3532 Reformation

REL 4340 Pathways to Buddha

REL 4345 Zen Buddhism

REL 4351 Religion and Japanese Culture

REL 3314 Religion on the Silk Road

REL 4311 Religions Classics of Asia

Professional Language Certificate Program

Isabel Castellanos, Director
(Modern Languages)

Coordinating Committee

Gisela Casines (Associate Dean, Arts and Sciences)

Malda Watson (Modern Languages)

Theodore R. Young (Modern Languages)

The Professional Language Certificate is a fifteen-credit course of study designed to offer both pre- and post-baccalaureate students, as well as degree-seeking students, specialization in foreign languages applicable to various professional endeavors. The certificate program is divided into separate tracks specified by language and application.

For all students, the certificate represents a way to gain specialized language knowledge. For students pursuing a degree, the certificate should be understood as a complement to the student's major area of study. Non-degree seeking students can use the certificate as a demonstration of their proficiency in specific foreign languages in their professional contexts.

Total credits Required in One Track: 15 semester hours. A grade of "C" or better is required for all courses (C- is not acceptable).

Spanish For Business Track

Prerequisite Courses: Before entering the certificate program, the student must have completed the following course or demonstrated an equivalent language proficiency through examination.
SPN 2200  Intermediate Spanish 3  
(Non-native speakers)

I. Required Courses: At least 15 semester hours of courses from the following certificate program course listing, or others approved by the certificate program advisor.

SPN 2201  Intermediate Spanish II 3  
(Non-native speakers)  
or  
SPN 2340  Intermediate Spanish for Native Speakers 3  
SPN 3301  Review Grammar/Writing 3  
(Non-native speakers)  
or  
SPN 2341  Intermediate Spanish for Native Speakers 3  
SPN 3440  Spanish Business Composition/Correspondence 3

II. Elective Courses: With program advisor's approval, a maximum of 6 credits may be taken from the following lists, with no more than 3 credits from Section A and 3 credits from Section B. This is a partial list: depending upon specific course content, other courses in International Business, Finance, Marketing, etc., may apply. Students consult the certificate advisor regarding additional courses.

Section A (maximum of 3 credits)

SPN 3244  Advanced Grammar and Composition 3  
SPN 3520  Spanish American Culture 3  
SPN 4500  Spanish Culture 3  
SPT 4807  Practica in Business Translation 3

Section B (maximum of 3 credits)

ECS 3402  The Political Economy of South America 3  
ECS 4403  Economics of Latin America 3  
FIN 4604  International Financial Management 3  
MAN 4600  International Management 3  
MAN 4660  Business in Latin America 3

Portuguese For Business Track

Prerequisite Courses: Before entering the certificate program, the student must have completed one of the following courses or demonstrated an equivalent language proficiency through examination.

POR 1131  Portuguese II 5  
POR 2320  Accelerated Portuguese I 5

I. Required Courses: courses are to be chosen from the following list in consultation with and approval of the advisor.

POR 2200  Intermediate Portuguese 3  
or  
POR 3231  Accelerated Portuguese II 5  
POR 3420  Review Grammar/ Writing 3  
POR 3xxx  Portuguese for Business 3

II. Elective Courses: With program advisor's approval, a maximum of 6 credits may be taken from the following lists, with no more than 3 credits from Section A and 3 credits from Section B. This is a partial list: depending upon specific course content, other courses in International Business, Finance, Marketing, etc., may apply. Students consult the certificate advisor regarding additional courses.

Section A (maximum of 3 credits)

POR 3400  Advanced Oral Communication 3  
POR 3500  Luso-Brazilian Culture 3  
PRT 3xxx  Introduction to Translation and Interpretation 3

Section B (maximum of 3 credits)

ECS 3401  The Brazilian Economy 3  
ECS 3402  The Political Economy of South America 3  
ECS 4403  Economics of Latin America 3  
FIN 4604  International Financial Management 3  
MAN 4600  International Management 3  
MAN 4660  Business in Latin America 3

Public Policy Studies

Certificate Program

John F. Stack, Director (Institute for Public Policy and Citizenship Studies)

Coordinating Committee:
Harvey A. Averch, (Public Administration)  
J. Scott Briar, (Social Work)  
Lisandro O. Perez, (Sociology/Anthropology)  
Raul Moncarz, (Economics)  
Rebecca A. Salokar, (Political Science)

The academic Certificate Program in Public Policy Studies is an interdisciplinary certificate program. It provides degree-seeking students with a critical understanding of how public policy is created, how it is implemented, and how it transforms daily life.

Besides providing the students with a wide range of interdisciplinary perspectives on public policy, the certificate program also provides students with practical experience by placing them in internships with public and political organizations in South Florida, Tallahassee, and Washington, D.C. For those students looking for careers in public policy, this experience could well be crucial.

Certificate Requirements

The certificate program requires completion of 21 semester hours of college credit. POS 2042 American Government is recommended as a prerequisite course. All students must then complete a common core of coursework by selecting one course from each of the following three course categories for a total of nine hours. Then, the student must fulfill the requirements of one of the three internship tracks: Federal Policy, (12 hours), State Policy (12 hours), or Local Policy (12 hours).

Core Courses: (9)

ECO 3021  Economics and Society: Micro 3  
or  
ECO 2023  Principles of Microeconomics 3  
ECO 3011  Economics and Society: Macro 3  
or  
ECO 2013  Principles of Macroeconomics 3

One of the following three hour courses:

POS 3424  The Legislative Process 3  
PAD 3033  Administrators and the Legislative Process 3  
PAD 4223  Public Sector Budgeting 3

Certificate Courses

The following courses fulfill certificate requirements for core courses and those exercising the Local Policy track. This is a partial list. The student should consult with the IPPPCS about current course offerings. Other courses may be substituted upon approval of the IPPPCS. Transfer students may only transfer up to two courses from institutions previously attended. The program is intended to expand student options, and complement other certificate programs.

Biology

BSC 5825  Wildlife Biology
<table>
<thead>
<tr>
<th>Undergraduate Catalog</th>
<th>College of Arts and Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCB 5635 Coral Reef Ecology, with lab</td>
<td>ECO 4713 International Macroeconomics</td>
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<tr>
<td>PCB 3241 Physiology of Aging</td>
<td>ECO 4733 Multinational Corporations</td>
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<td>PCB 5358 Everglades Research and Resource Management</td>
<td>ECO 3123 Economics of Poverty</td>
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<td>PCB 5686 Population Biology</td>
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<td>ZOO 3892C Biology of Captive Wildlife</td>
<td>ECP 3533 Health Systems Economics</td>
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<tr>
<td>Business Administration</td>
<td>ECP 3613 Introduction to Urban Economics</td>
</tr>
<tr>
<td>MAN 3503 Managerial Decision Making</td>
<td>ECP 4020 Introduction to Labor Economics</td>
</tr>
<tr>
<td>MAN 4711 Corporate Social Monitoring</td>
<td>ECP 4024 Theory of Labor Economics</td>
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<tr>
<td>TAX 4001 Income Tax Accounting</td>
<td>ECP 4314 Natural Resource Economics</td>
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<tr>
<td>TRA 4320 Transportation Regulations</td>
<td>ECP 4403 Principles of Industrial Organization</td>
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<td>TRA 4380 Transportation Policy</td>
<td>ECP 4622 Regional Economic Growth Management</td>
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<td>TRA 4410 Air Transportation</td>
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<td>TRA 4411 Airport Management</td>
<td>EDF 3723 Schooling in America</td>
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<td>Civil and Environmental Engineering</td>
<td>EDF 4780 The Teacher and the Law</td>
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<td>ENV 5007 Environmental Planning</td>
<td>EDF 5852 Educational Developmental Issues in Context: A Multidisciplinary Perspective</td>
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<td>ENV 5062 Environmental Health</td>
<td>EEC 4301 Trends in Early Childhood Education</td>
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<td>ENV 5659 Regional Planning Engineering</td>
<td>EX 5771 Independent Living for the Handicapped</td>
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<td>ENV 5666 Water Quality Management</td>
<td>LEI 5255 Independent Living for the Handicapped</td>
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<td>TTE 5506 Urban Mass Transit and Transportation Planning</td>
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<td>Construction Management</td>
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<td>BCA 3640 Economic Planning for Construction</td>
<td>EVR 3011 Environmental Resources and Pollution</td>
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<td>BCA 5755 Construction Accounting and Finance</td>
<td>EVR 3013 Ecology of South Florida</td>
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<td>Criminal Justice</td>
<td>EVR 4021 Survey of Environmental Problems I</td>
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<tr>
<td>CCJ 3290 Judicial Policymaking</td>
<td>EVR 4022 Survey of Environmental Problems II</td>
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<td>CCJ 3300 Correctional Philosophy, Theory and Practice</td>
<td>EVR 4211 Water Resources</td>
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<td>CCJ 3470 Criminal Justice Planning</td>
<td>EVR 4231 Air Resources</td>
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<td>CCJ 3501 Juvenile Delinquency, Prevention and Control</td>
<td>EVR 4312 Energy Resources</td>
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<td>CCJ 4453 Methods of Institutional Change</td>
<td>EVR 5236 Air Pollution Dynamics</td>
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<td>CCJ 5285 Judicial Process and Policy</td>
<td>Health Services Administration</td>
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<td>CCJ 5347 Correctional Intervention Strategies</td>
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<td>CCJ 5525 Seminar in Judicial Delinquency</td>
<td>HSA 4110 Health Care Organization and Administration</td>
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<td>Economics</td>
<td>HSA 4113 Issues and Trends in Health Care Delivery</td>
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<td>ECO 3040 Consumer Economics</td>
<td>HSA 4140 Program Planning and Evaluation</td>
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<td>ECO 4321 Radical Political Economy</td>
<td>HSA 4150 People, Power and Politics in Health Affairs</td>
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<tr>
<td>ECO 4504 Introduction to Public Finance</td>
<td>HSA 4420 Legal Aspects and Legislation in Health Care</td>
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<td>ECO 4622 Economic Development of the United States</td>
<td>HSC 4202 Principles and Programs in Public Health</td>
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<td>ECO 4701 World Economy</td>
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<td>ECO 4703 International Trade Theory and Policy</td>
<td>AMH 4130 The American Revolution</td>
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<td>AMH 4140 The Age of Jefferson</td>
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<td>AMH 4160 The Age of Jackson</td>
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<td>AMH 4251 The Great Depression</td>
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<td>AMH 4560 History of Women in the United States</td>
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<td>International Relations</td>
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<td>GEO 3602 Urban Geography</td>
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<td>GEO 5415 Topics in Social Geography</td>
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<td>HPT 3700 Fundamentals of Tourism</td>
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<td>INR 3043 Population and Society</td>
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<td>Journalism and Mass Communication</td>
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<td>LBS 4101 Theories of the Labor Movement</td>
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<td>LBS 4150 Contemporary Labor Issues</td>
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<td>LBS 4461 Labor Dispute Resolution</td>
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<td>POS 4463</td>
<td>Interest Group Politics</td>
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<td>POS 4605</td>
<td>Gender Justice</td>
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<td>American Political Thought</td>
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<td>PUP 4203</td>
<td>Environmental Politics and the Law</td>
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<td>Women in Politics</td>
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<td>PUP 5934</td>
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<td>CLP 5185</td>
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<td>PAD 3804</td>
<td>Government and Administration of Metropolitan Areas</td>
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<td>PAD 4103</td>
<td>Politics of Administrative Organizations</td>
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<td>PAD 4432</td>
<td>Administrative Leadership and Behavior</td>
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<td>SOW 3232</td>
<td>Social Welfare Policy and Services I</td>
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<td>SOW 3233</td>
<td>Social Welfare Policy and Services II</td>
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<td>Introduction to Social Work</td>
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<td>SOW 4654</td>
<td>Child Welfare</td>
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<td>SOW 5109</td>
<td>Crises in the Lives of Women</td>
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<td>SOW 5235</td>
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<td>SOW 5641</td>
<td>Understanding the Process of Aging</td>
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<td>SOW 5710</td>
<td>Chemical Dependency and Social Work</td>
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<td>ANT 4273</td>
<td>Law and Culture</td>
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<td>ANT 4406</td>
<td>Anthropology of War and Violence</td>
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<td>SYD 4700</td>
<td>Minorities/Race and Ethnic Relations</td>
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<td>SYD 3810</td>
<td>Sociology of Gender</td>
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<td>SYO 3250</td>
<td>School and Society</td>
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<td>SYO 4571</td>
<td>Organizations and Society</td>
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<td>SYP 3520</td>
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<td>SYP 3530</td>
<td>Delinquency</td>
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<tr>
<td>SYP 4730</td>
<td>Sociology of Aging</td>
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</tbody>
</table>

**Public Policy Tracks**

**Federal Policy (Intern Semester - 12 hours)**
- This internship is offered during the summer and involves the student taking an internship with a governmental, nongovernmental, or political organization in the nation’s capital. The specifics of the internship are agreed upon by the student and the IPPCS advisor and the student receives six semester hours of credit. Like the Tallahassee Internship, the student attends an intensive two week course at FIU before leaving for Tallahassee. While in Washington, all FIU interns are required to attend a course designed to inform them of the workings of public policy on the national and international levels: students receive three hours of credit for a seminar in Washington. Students are responsible for their own room and board, although the Institute assists as much as possible in arranging housing and financial aid. The Washington, D.C. internship option is worth a total of 12 semester hours.

**State Policy (Intern Semester - 12 hours)**
- Students with senior status are placed in nonpaying internships in State of Florida government agencies. Advisors from the IPPCS work with students to determine which agency is most suitable, depending upon the student’s interests. This internship is held during the Spring Term in order to coincide with the State's legislative session. Students attend an intensive two week introductory course at FIU before leaving for Tallahassee. While in Tallahassee, in addition to their internship responsibilities, which are worth six semester hours, students attend a once a week seminar with other interns. This class will be coordinated by the IPPCS and features guest lecturers from governmental and political organizations. Although the students are responsible for their own room and board, the Institute helps to arrange housing and assists in the application for financial aid. The Tallahassee Internship option is worth a total of 12 semester hours.

**Public Administration**

**Public Policy: U.S.**
- (Crosslisted with PAD 3034: Public Policy and its Administration (Pre-internship Seminar))

**Local Policy (Intern Semester 12 hours)**
- This option may be the most viable for those who want to earn the certificate, but who are unable to leave South Florida for an internship. This option is designed to be as flexible as possible. The nature of this option is worked out between the student and the IPPCS advisor. The student receives three credit hours for whichever courses are completed, including a local internship. Courses must be taken in at least two different disciplines, at least one being outside the student’s departmental major. Core courses may not count toward the fulfillment of these requirements.
**Translation Studies Certificate Program**

This professional certificate is designed to train students in the techniques and skills needed for the translation (E-S and S-E) of routine documents and general correspondence. It also provides the general background and introductory professional courses needed for future study or work in the field of translation. The program consists of 30 semester hours.

Through its academic track, the certificate program offers complementary studies for the practitioner who wants to strengthen his or her competence in this field.

**Prerequisites**

<table>
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<tr>
<th>Course</th>
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<tr>
<td>ENC 3200</td>
<td>Business Letters and Reports</td>
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<tr>
<td>SPN 3302</td>
<td>Review Grammar and Writing</td>
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No credits allowed.

**Core Courses:** (12)

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<th>Course</th>
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<td>SPT 3800</td>
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<td>SPT 3812</td>
<td>Introduction to Interpreting</td>
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<td>SPT 4801</td>
<td>Translation Practica</td>
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<td>SPT 4802</td>
<td>Oral Translation</td>
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**Required Courses:** (9)

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<td>FOT 3810</td>
<td>Creative Writing Translation</td>
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<tr>
<td>SPT 4803</td>
<td>Practica in Legal Translation</td>
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<td>SPT 4809</td>
<td>Practica in Medical Translation</td>
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<td>SPT 4807</td>
<td>Practica in Business Translation</td>
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<td>SPT 4808</td>
<td>Practica in Technological Translation</td>
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<td>Translation in Communication Media</td>
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<td>SPT 4820</td>
<td>Computer Aided Translation</td>
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<td>SPT 4941</td>
<td>Professional Internship</td>
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**Restrictive Electives**

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<td>SPN 3413</td>
<td>Communication Arts</td>
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</tr>
<tr>
<td>SPN 3520</td>
<td>Spanish American Culture</td>
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**Free Electives**

Two courses from the following:

- ACG 2021 Accounting for Decisions
- COP 2172 Programming in BASIC
- ECO 3021 Economics and Society, Micro
- ECO 3011 Economics and Society, Macro
- HUN 2201 Principles of Nutrition
- INR 3403 International Law
- JOU 3100 News Reporting
- MAN 3602 International Business
- MAN 3701 Business and Society
- MRE 3001 Medical Terminology
- MRE 3431 Fundamentals of Medical Science
- RTV 4302 Broadcasting for Reporting (Prerequisite JOU 3100)
- SYG 3002 The Basic Ideas of Society

In addition to these subjects, the free electives may be chosen from the offerings in the departments of Sociology/Anthropology, Communication, Computer Science, Economics, International Relations, Modern Languages, and Political Science by securing the approval of the Director of the Program.

**Tropical Commercial Botany Professional Certificate Program**

- David Lee, Director (Biological Sciences)
- Coordinating Committee
- Bradley Bennett, (Biological Sciences)
- Richard Campbell, (Fairchild Tropical Garden)
- Kelsey Downum, (Biological Sciences)
- Jack B. Fisher, (Fairchild Tropical Garden)
- Christopher Kernan, (Biological Sciences)
- Suzanne Koptur, (Biological Sciences)
- Steven Oberbauer, (Biological Sciences)
- Jennifer Richards, (Biological Sciences)

This Certificate Program provides background in the plant sciences, principally for those with practical experience in horticulture. The curriculum is designed to give solid information on the plants being grown: their anatomy and morphology, reproduction, taxonomy, development and physiology. This background should prepare students for work in the more technical aspects of horticulture in South Florida. Those fulfilling its requirements, along with a B.S. degree in Biological Sciences or Environmental Studies, would have excellent preparation for post-graduate work in Botany or Horticulture.

**Certificate Requirements**

**Lower or Upper Division Preparation;**

- Two semesters of college-level chemistry;
- Mathematics through College Algebra (such as MAC 2132);
- Practical Horticultural Experience.

**Required Courses:** (16)

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<tr>
<td>BOT 3353</td>
<td>Morphology of Vascular Plants</td>
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</tr>
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<td>BOT 4504</td>
<td>Plant Physiology</td>
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<td>BOT 4504L</td>
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<tr>
<td>BOT 3723C</td>
<td>Taxonomy of Tropical Plants</td>
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**Electives**

Two courses from the following (6-8)

- BOT 3810 Economic Botany
- BOT 4314C Plant Development
- PCB 3043 Ecology
- PCB 3043L Ecology Lab
- EVR 3010 Energy Flow in Natural and Man-Made Systems
- ENY 1004 General Entomology
- ENY 1004L General Entomology Lab
- ACG 2021 Accounting for Decisions
- ARC 3133 Graphic Communication
- LAA 3350C Landscape Design

All courses require a grade of 'C' or higher.

**Women’s Studies Certificate Program**

- Suzanna Rose, Director, Women’s Studies and Psychology
- Affiliated Faculty:
  - Keisha Abraham, English
  - Dawn Addy, Center for Labor Research and Studies
  - Janice Allen-Kelsey,
The Women’s Studies Certificate Program provides an opportunity for students to integrate scholarship about gender from a variety of disciplines into a coherent program of study. The Certificate Program includes a core of required courses central to an understanding of women in a social and historical context. The courses provide a basic grounding in Women's Studies that should be useful in many other courses and as excellent preparation for graduate study and for careers. The core courses are supplemented by a variety of electives to be chosen according to the student's specific interests. Students may enroll in the Certificate Program or take courses as electives either in their major or in any discipline that offers women's studies courses for credit.

A student may acquire the Certificate in Women's Studies by fulfilling the following requirements:

Three required Core Courses from the following:

- WST 3015 Introduction to Women's Studies
- HUM 3930 Female/Male: Women’s Studies Seminar
- SOP 3742 Psychology of Women
- SYD 3810 Sociology of Gender
- WST 4504 Feminist Theory
- ANT 3302 Anthropology of Sex and Gender
- AMH 4560 History of Women in the U.S.
- EUH 4610 Women and Gender in Europe, 1750 to Present
- REL 3145 Women and Religion
- LIT 3383 Women in Literature

Three electives from the following partial list:

- AML 4624 African American Women Writers
- ANT 3302 Anthropology of Sex and Gender
- ANT 3304 Voices of Third World Women
- ANT 4334 Contemporary Latin American Women
- ARH 4931 Women in Art
- CCJ 4663 Women, Crime and the Criminal Justice System
- ENL 4134 Women in Film
- LIN 4651 Gender and Language
- LIN 6937 Gender and Language
- LIT 4931 Special Topics in Women’s Literature
- MAN 4102 Managing Diversity
- PAD 5435 Administration and the Role of Women
- PHM 4123 Philosophy and Feminism
- POS 4605 Gender Justice
- POT 4309 Sex, Power and Politics
- PSY 4xxx Female Sexuality
- REL 3145 Women and Religion
- SOP 3742 Psychology of Women
- SOW 5109 Crises in the Lives of Women
- WST 3015 Introduction to Women's Studies
- WST 3641 Gay and Lesbian in the US
- WST 4504 Feminist Theory

Every semester additional courses are introduced and periodically special topics courses on gender are offered. The program also offers a Bachelor of Arts in Women's Studies. For information about the major, refer to the women's studies section in the Arts and Sciences undergraduate major section.

The Center is located in DM 212, University Park, 348-2408. Students may contact the Women's Studies Center director at the above location, or the Certificate Committee coordinator, North Campus, 919-5859 for further information or email: wstudies@fiu.edu.
College of Arts and Sciences

Dean
Arthur W. Herriott

Associate Dean, Curriculum and Advisement
Fred Bouma

Gisela Casines

Kelsey Downum

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Shershin, Anthony, Ph.D. (University of Florida), Associate Professor, Mathematics
Shore, Minna, Ph.D. (Leningrad Technical Institute), Instructor, Mathematics
Silverman, Wendy, Ph.D. (Case Western Reserve University), Professor, Psychology and Director, Child and Family Psychosocial Research Center
Silverstein, Ronn, M.A. (Sir George Williams University, Montreal), Instructor, English
Simpson, Caroline, Ph.D. (University of Florida), Associate Professor, Physics
Skow, Marilyn, M.Ph. (Columbia University), Associate Professor, Theatre and Dance
Slifer, James, Ph.D. (University of Notre Dame), Associate Professor, Mathematics
Smith Geoffrey, Ph.D. (Cornell University), Assistant Professor, School of Computer Science
Smith, Jollyn, M.S. (University of New Brunswick), Instructor, School of Computer Science
Smith, Katherine, Ph.D. (University of Connecticut), Assistant Professor, English
Smith, Sylvia, Ph.D. (University of Miami), Professor, Biological Sciences
Sprechman, Ellen, Ph.D. (University of Denver), Professor, Political Science and Director, Institute for Public Policy and Citizenship Studies
Standiford, Lester, Ph.D. (University of Utah), Professor, English and Director, Creative Writing Program
Stepick, Alex, Ph.D. (University of California-Irvine), Professor, Sociology/Anthropology and Director, Ethnicity and Immigration Institute
Stiehm, Judith, Ph.D. (Columbia University), Professor, Political Science
Stier, Oren, Ph.D. (University of California-Santa Barbara), Assistant Professor, Religious Studies
Stoddard, Philip D., Ph.D. (University of Washington), Associate Professor, Biological Sciences
Sugg, Richard, Ph.D. (University of Florida), Professor, English
Sun, Wei, Ph.D. (University of Illinois-Chicago Circle), Associate Professor, School of Computer Science
Sutton, James M., Ph.D. (Yale University), Assistant Professor, English
Sweet, James, Ph.D. (City University of New York), Assistant Professor, History
Syropoulos, Constantinou, Ph.D. (Yale University), Associate Professor, Economics
Szuchman, Mark, Ph.D. (University of Texas-Austin), Professor, History and Associate Dean, College of Arts and Sciences
Tachim Medjo, Theodore, Ph.D. (University of Paris), Assistant Professor, Mathematics
Tardanico, Richard, Ph.D. (The Johns Hopkins University), Associate Professor, Sociology/Anthropology
Taylor, Clarence, Ph.D. (Syracuse University), Professor, History
Tcheugoue Tebou, Louis, Ph.D. (University of Metz, France), Assistant Professor, Mathematics
Theisen, Lee, Ph.D. (University of Arizona), Assistant Dean, College of Arts and Sciences
Thomakos, Dimitrios, Ph. D., (Columbia University), Assistant Professor, Economics
Thompson, Ellen, Ph.D. (University of Maryland), Assistant Professor, English
Timlick, Lesley-Ann, M.F.A. (University of California-Davis), Associate Professor, Theatre and Dance
Todd, Therald, Ph.D. (University of Oregon), Associate Professor, Theatre and Dance
Torres, Manuel, Ph.D. (University of New Mexico), Professor, Art and Art History
Torres-Pou, Juan, Ph.D. (Rutgers University), Assistant Professor, Modern Languages
Tracey, Martin, Ph.D. (Brown University), Professor, Biological Sciences
Trexler, Joel C., Ph.D. (Florida State University), Associate Professor, Biological Sciences
Tubman, Jonathan, Ph.D. (Pennsylvania State University), Associate Professor, Psychology
Urbe, Victor, Ph.D. (University of Pittsburgh), Assistant Professor, History
Vagramian-Nishanian, Violet, Ph.D. (University of Miami), Professor, School of Music
Van Hamme, Walter, Ph.D. (University of Ghent, Belgium), Professor, Physics
Vickers, William, Ph.D. (University of Florida), Professor, Sociology/Anthropology
Villamor, Enrique, Ph.D. (Washington University), Professor and Chairperson, Mathematics
Visvesvaran, Chockalingam, Ph.D. (University of Iowa), Associate Professor, Psychology
Wagner, Michael J., Ph.D. (Florida State University), Professor, Music Education, School of Music
Wakefield, Daniel, B.A. (Columbia College), Lecturer and Writer-in-Residence, English
Walker, Charlyne, Ph.D. (BARRY University), Instructor, School of Computer Science and Director of Educational Technology, Dean's Office
Walker III, William, Ph.D. (University of California-Santa Barbara), Professor, History
Wang, Tao, Ph.D. (The Johns Hopkins University), Assistant Professor, Economics
Wang, Xuewen, Ph.D. (Iowa State University), Associate Professor, Physics
Warren, Christopher, D.A. (Lehigh University), Associate Professor, Political Science
Warren, Paul, Ph.D. (University of Wisconsin-Madison), Associate Professor, Philosophy
Watson, Donald, Ph.D. (University of Virginia), Professor and Chairperson, English
Watson-Espener, Maida, Ph.D. (University of Florida), Professor and Chairperson, Modern Languages
Watts, Barbara, Ph.D. (University of Virginia), Associate Professor, Art and Art History
Waugh, Butler, Ph.D. (Indiana University), Professor, English
Webb, James, Ph.D. (University of Florida), Associate Professor, Physics
Weeks, Ophelia, Ph.D. (Howard University), Associate Professor, Biological Sciences
Weir, Donna, Ph.D. (University of California-Berkeley), Assistant Professor, English
Weiss, Mark, Ph.D. (Princeton), Professor, School of Computer Science
Weitz, Barbara, M.S. (Florida International University), Instructor, English
Welch, Marcelle, Ph.D. (University of Michigan), Professor, Modern Languages and Associate Director of Liberal Studies
West, Lois, Ph.D. University of California-Berkeley), Associate Professor, Sociology/Anthropology
Whitman, Dean, Ph.D. (Cornell University), Associate Professor, Earth Sciences
Wilkins, Mira, Ph.D. (University of Cambridge), Professor, Economics
Willumsen, Maria, Ph.D. (Cornell University), Associate Professor, Economics
Winkle, Stephen, Ph.D. (University of California-Berkeley), Associate Professor, Chemistry
Wnuk, Stanislaw, Ph.D. (Adam Mickiewicz University, Poland), Associate Professor, Chemistry
Wolfe, Gregory Baker, Ph.D. (The Fletcher School of Law and Diplomacy), Professor, International Relations
Wood, Kirsten, Ph.D. (University of Pennsylvania), Assistant Professor, History
Yavas, Feryal, Ph.D. (University of Kansas), Lecturer, English and Director, Linguistics

Yavas, Mehmet, Ph.D. (University of Kansas), Professor, English
Young, Theodore, Ph.D. (Harvard University), Associate Professor, Modern Languages
Yudin, Florence, Ph.D. (University of Illinois), Professor, Modern Languages
Zahedi-Jasbi, Hassan, Ph.D. (University of California-Riverside), Associate Professor, Statistics
Zalkikar, Jyoti N., Ph.D. (University of California-Santa Barbara), Associate Professor, Statistics
Zhang, Jiandi, Ph.D. (Syracuse University), Assistant Professor, Physics
Zhu, Hong, Ph.D. (Nanjing University, China), Associate Professor, School of Computer Science
Zhu, Yifu, Ph.D. (University of Virginia), Associate Professor, Physics
Zweibel, John, Ph.D. (Columbia University), Associate Professor, Mathematics
College of Business Administration
Mission Statement

The College of Business Administration exists to create enduring educational value for our students, for our alumni, and for the business, professional, and academic communities we serve:

For our students—whom we prepare to succeed in a rapidly changing, technology-driven global business environment;

For our alumni—to whom we provide opportunities for continuing professional development and a legacy that appreciates as our excellence grows;

For the business and professional communities—to whom we offer knowledgeable graduates, educational programs, research, and collaborative projects;

For the academic community—to whom we bring new knowledge through high-quality research and the development of future scholars.

Our vision is to create a College of Business Administration that is distinguished among urban public business schools as a center for global business education, technology, and research. Our most noteworthy teaching and research expertise lies in the business arenas linking South Florida, Latin America, and the world economy.

The College offers undergraduate, graduate, professional education, customized training, and several certification programs to traditional and nontraditional students and to enterprises around the world. While continuing to meet the needs of students in the South Florida community, we are intensifying our educational service delivery to international students and enterprises, especially those in Latin America.

In all of our programs, we strive to instill in students a profound understanding of the changing nature of international business in an integrated global economy. We ensure they are well versed in the impact information technology is having on how enterprises are organized and managed and on how products and services are created and marketed. We provide them with a solid grasp of business processes, the ability to think critically and to solve problems ethically, and the sense to conduct themselves with integrity and within the context of social and environmental responsibility. We foster their commitment to lifelong learning in a dynamic, complex, and competitive world.

Our faculty engage in basic and applied research and in instructional development to contribute not only to the general knowledge base in the field of business but also to the ways in which this knowledge is created and shared. The College boasts a state-of-the-art information technology infrastructure that enables us to provide leading edge instruction and research, including online course delivery. At the same time, our IT investment supports our ongoing curricular innovation in related fields like enterprise-wide computing and logistics.

Organization

The College is organized into the School of Accounting and the Departments of Decision Sciences and Information Systems, Finance, Management and International Business, and Marketing.

The College also houses several centers of excellence dedicated to teaching, research, and service. These include the Jerome Bain Real Estate Institute, the Ryder Center for Supply Chain Systems, the Knight Ridder Center for Excellence in Management, the Center for Management Development/Office of Professional Education, and the Center for International Business Education and Research.

Degree Programs

The College of Business Administration (CBA) offers academic programs leading to the undergraduate degrees of Bachelor of Business Administration (B.B.A.) and Bachelor of Accounting (B.Acc.) and to the graduate degrees of Master of Accounting (M.Acc.), Master of Business Administration (M.B.A.), Master of International Business (M.I.B.), Master of Science in Finance (M.S.F.), Master of Science in Management Information Systems (M.S.M.I.S.), Master of Science in Taxation (M.S.T.), and Doctor of Philosophy in Business Administration (Ph.D.).

Weekend Bachelor of Business Administration (W.B.B.A.)

The College offers a Weekend Bachelor of Business Administration (W.B.B.A.) degree program tailored to meet the needs of working professionals who wish to complete the final two years of their degree in a concentrated time span. As the name suggests, courses are offered during the weekend to enable students to continue to pursue their careers full time. This program, which charges tuition plus additional fees, is limited to a select number of students. Each class admitted to the Weekend B.B.A. program proceeds as a group, in a series of lock-step courses, to meet their degree requirements in two years. Graduates receive a Bachelor of Business Administration degree with a Management major. For additional information, please contact the program manager (305) 348-4052 or email wbba@fiu.edu.

Undergraduate Majors

Major programs leading to the Bachelor’s degree are offered in Accounting, Finance, International Business, Management, Human Resource Management, Management Information Systems, Marketing, and Real Estate. Also offered is an entrepreneurship track within the Management major and a logistics track within the Marketing major.

Students are encouraged to visit the undergraduate students services website for additional information and assistance: http://cba.fiu.edu/studentsvcs.

Undergraduate Minors

The College offers several minors for undergraduate, non-business students: a minor in Business, a minor in Marketing, and a minor in Entrepreneurship.

For admission to the minor, students need to be fully admitted to their major in another college and must have a 2.25 GPA. Business majors are not eligible for a minor.

Students opting for a minor in business must complete the following five courses (15 credit-hours):

ACG 3024 Accounting for Managers and Investors
Introduction

A semester at the University must be completed.

The minor in Entrepreneurship is discussed in the “Management and International Business” section of this catalog; the minor in Marketing is discussed in the “Marketing” section of this catalog.

Undergraduate Degree Programs

Admission Requirements

Applicants to the College of Business Administration must submit an application for admission to the University and follow regular University admission procedures. Applicants must meet the University’s requirements for admission before being eligible for admission to College.

To be eligible for acceptance into an undergraduate program in the College of Business Administration, students must have:

1. Completed 60 semester hours of course work or have completed the Associate in Arts degree or its equivalent;
2. Satisfied general University requirements for admission, including, in this case, the University’s general education requirements: English composition, humanities, social science, natural science and mathematics;
3. Met the University’s lower division requirements, including CLAST;
4. Completed all seven precore courses or their equivalent.
5. Achieved a minimum grade point average of 2.25 (2.50 for Accounting majors) or higher. Business courses taken at Florida International University are not included in this GPA computation;
6. If applicant is an international student whose native language is not English, have achieved a minimum score of 500 on the paper-based TOEFL, 173 on the computer-based TOEFL, or an equivalent score on a comparable examination. [International applicants should study the “General Admission” requirements for foreign students in the “Admissions” section of this catalog.]

If a student has a GPA of 2.25 (2.50 for Accounting majors) or higher and is deficient in no more than six semester hours of general education requirements, he/she may be accepted into a College undergraduate program with the provision that he/she complete all lower-division deficiencies within two semesters of acceptance.

In addition, students who expect to earn a Bachelor’s degree in the College within the equivalent of two years should have completed the following as part of the 60 semester hours of lower-division course work: six credit-hours of accounting; six credit-hours of economics; three credit-hours of calculus; three credit-hours of business statistics; and three credit-hours of computer applications.

Readmission

Students who have been admitted into an undergraduate program in the College, but who have not enrolled in any course at the University for three consecutive semesters (including summer) must complete an application for readmission. Students eligible for readmission are subject to the University’s and the College’s degree program’s regulations in effect at the time of readmission.

Program of Study

Once accepted into an undergraduate program in the College, students must complete a formal “Program of Study” before the end of their first semester of course work. Students with majors in the School of Accounting should call (305) 348-2907 to make a program counseling appointment. Students with majors outside of Accounting should call the College’s Advising Service for an appointment—(305) 348-2781 in University Park.

During these appointments, the College’s advisors will help students complete their formal “Program of Study.” Any questions about course work and degree requirements will be resolved in establishing this official “Program of Study.” If, for some reason, a student has not established an official “Program of Study” at least two semesters before he/she expects to graduate, he/she will no longer be permitted to register for classes.

Upper-division Transfer

Students may be able to transfer previously-earned credit towards upper-division study in the College if 1) the credit was designated as junior or senior level at an accredited, four-year, upper-level institution, and 2) the student earned a grade of "C" or higher, or the credit can be validated by some acceptable measure to verify its equivalence. Students wishing to transfer to the college must be in good standing at their previous school or college.

Change of Major

Students who wish to change from a major in another college or school within the university to a new major within the College of Business Administration must meet the degree requirements in effect at the time of the change of major.

Computer Literacy Requirement

Before students can enroll in CGS 3300 (or ACG 4401), they must demonstrate computer literacy proficiency. They can meet this requirement by doing any one of the following: 1) successfully completing a lower-division computer programming course; 2) successfully completing CGS 2100 – Introduction to Microcomputers; or 3) providing employer verification of relevant work experience.

Residency Requirement

Students must complete the last 30 semester hours of course work at the University to qualify for an undergraduate degree.

Study-Abroad Programs

The maximum number of credit-hours allowed to undergraduate students for participating in a study-abroad program is six (6).

Additional Policies

Undergraduate students majoring in subjects outside the College of Business will not be permitted to apply more than 30 semester hours of business courses toward their degree.

Undergraduate students who register for any graduate business course must be formally admitted to a graduate degree program at the university following the university's admission procedures.

Faculty have the discretion to administratively drop students who do not attend the first class of a course
Undergraduate Degree Program Requirements

In general, students who can earn a bachelor's degree from the College of Business Administration will have completed professional work that includes:

1. Pre-core courses as necessary;
2. Required courses designed to provide students with a common body of knowledge that includes:
   a. Concepts and processes in the production, financing and marketing of goods and services in a business enterprise or organization, both domestically and internationally;
   b. The economic and legal environments of and the ethical, social, and political influences on profit and non-profit organizations;
   c. Concepts and applications in accounting, quantitative methods, computers and management information systems;
   d. Organizational theory and behavior and interpersonal communication;
   e. Administrative and decision-making processes in climates of uncertainty, including policy analysis at the highest management levels.
3. Required courses in major;
4. Approved elective courses.

Academic Standards

To earn an undergraduate degree from the College of Business Administration, all students must:
1. Earn a grade of "C" or higher in all major courses and in core courses within their major area of study.
2. Satisfy the requirements of their respective programs of study and satisfy all university requirements for graduation.

The College adheres strictly to the university's dismissal policy.

Students should be sure to read and understand Florida International University's policies regarding "Academic Warnings, Probation, and Dismissals" as described in the "General Information" section of this catalog. These policies apply to all students in the College of Business Administration.

In addition to satisfying the degree requirements specified in the university's "General Information" section of the catalog, students in the College of Business Administration must have completed the following course work:

Pre-Core Courses (3 credit-hours each)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2021</td>
<td>Accounting for Decisions</td>
</tr>
<tr>
<td>ACG 3301</td>
<td>Accounting for Planning and Control</td>
</tr>
<tr>
<td>CGS 2100</td>
<td>Microcomputer Applications</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>ECO 2023</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Statistics for Business and Economics</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Calculus for Business and Economics</td>
</tr>
</tbody>
</table>

The courses listed above will be waived if a student received a grade of "C" or higher in the appropriate lower-division courses. However, upper-division credit will not be given for these courses. Students should see a college advisor to determine whether or not these courses should be added to their program of study.

Business Core Courses (33 Credit-hours)

The business core courses listed below are required for all undergraduate students in the College of Business Administration. Listed with them are the prerequisites (where applicable) for each of the business core courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 3300</td>
<td>Introduction to Information Systems*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prereq: CGS 2060 or CGS 2100</td>
<td></td>
</tr>
<tr>
<td>COM 3110</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUL 4310</td>
<td>Legal Environment of Business*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prereq: Senior Status</td>
<td></td>
</tr>
<tr>
<td>ECO 3202</td>
<td>Applied Macro Economics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prereq: ECO 2013 or ECO 3011</td>
<td></td>
</tr>
<tr>
<td>FIN 3403</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prereq: STA 2023 and ACG 2021 or its equivalent</td>
<td></td>
</tr>
<tr>
<td>FIN 3xx</td>
<td>Introduction to Financial Markets</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Prereq: FIN 3403</td>
<td></td>
</tr>
<tr>
<td>GEB 3xx</td>
<td>The Business Plan</td>
<td>1</td>
</tr>
<tr>
<td>MAN 3025</td>
<td>Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 3xx</td>
<td>Business Ethics and Environment</td>
<td>1</td>
</tr>
<tr>
<td>MAN 4504</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 4722</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prereq: Graduating Senior</td>
<td></td>
</tr>
<tr>
<td>MAR 3023</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>QMB 3200</td>
<td>Applications of Quantitative Methods in</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prereq: STA 2023 or its equivalent, CGS 3300, or ACG 4401, and College Algebra</td>
<td></td>
</tr>
</tbody>
</table>

*These courses should not be taken by students majoring in Accounting. Instead, Accounting majors must take ACG 4401 Accounting Information Systems and BUL 4320 Business Law.

Prerequisite Requirements

Prerequisite course requirements for entry into upper level courses will be enforced. Students will be administratively dropped from courses when they lack the required prerequisite course or courses.

Note: The programs, policies, requirements, and regulations listed in this catalog are subject to continual review in order to meet the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. Changes may be made without advance notice. Please refer to the "General Information" section of this catalog for the university's policies, requirements, and regulations.
School of Accounting

Dana A. Forgione, Professor and Director
Rolf Auster, Professor
Delano H. Berry, Lecturer
Lewis F. Davidson, Professor
Manuel Dieguez, Instructor and Associate Director
Donald W. Fair, Instructor and Associate Dean
Georgina Garcia, Instructor
Wendy Gelman, Instructor
Delano Gray, Instructor
Rosalie C. Hallauer, Associate Professor
Kenneth Henry, Visiting Lecturer
David Lavin, Associate Professor
Chih-Chen Lee, Assistant Professor
Myron S. Lubell, Associate Professor and Director, E.M.S.T. Program
Peter Manheimer, Lecturer
Kenneth S. Most, Professor Emeritus
Robert R. Oliva, Professor
Felix Pomeranz, Professor
Leonardo Rodriguez, Professor
Eva Rose-Green, Assistant Professor
Krishnamurthy Surysewar, Assistant Professor
Clark Wheatley, Associate Professor
John Wrieden, Distinguished Senior Lecturer

Purpose
The mission of the School of Accounting is:

- To support and recognize the development of the faculty regarding their teaching, research, and service responsibilities.
- To support the accounting and other professions in South Florida and elsewhere with life-long learning via short courses, conferences, and published materials designed to hone practitioners' skills in the latest technical and professional developments and in recognizing environmental trends that may affect future practices.
- To provide meaningful knowledge of professional accounting concepts and information to other, academic and professional disciplines.
- To support the mission and objectives established by the College of Business Administration and to foster the design and implementation of FIU's strategic and tactical plans.

Bachelor of Accounting (B.Acc.)

The objective of the B.Acc. program is to prepare students for positions in public, private sector, corporate, and governmental accounting. To qualify for positions in public accounting, students must take the CPA examination, which, in Florida, requires an additional 30 credit-hours beyond the B.Acc. degree.

The Bachelor of Accounting program also prepares students to pursue advanced degrees in accounting, business, or law.

Degree Program Requirements (120 credit-hours)

Lower-Division/ Business Pre-Core 60 hours
Upper-Division/ Business Core 33 hours
Accounting Major 21 hours
Electives 6 hours

Lower Division/Pre-Core

The "General Information" section in this catalog describes the lower division requirements. The Business Pre-Core requirements are listed in the first section of this "College of Business Administration" chapter. Students must complete all lower division and Business Pre-core requirements no later than the first semester of their third year of undergraduate study.

Upper Division/Business Core

The College's Business Core Requirements are listed in the first section of this "College of Business Administration" chapter.

Accounting Major Requirements

ACG 4101 Financial Accounting I
ACG 4111 Financial Accounting II
ACG 4201 Financial Accounting III
ACG 4341 Management Accounting
TAX 4001 Income Tax Accounting

Specializations: (6 hours)
Public Accounting:
ACG 4501 Governmental and Institutional Accounting
ACG 4651 Auditing
or
Non-Public Accounting
ACG 4501 Governmental and Institutional Accounting
ACG 4353 Advanced Management Accounting
or
ACG 4353 Advanced Management Accounting
ACG 4311 Applied Accounting Concepts
and
Electives (6 hours) as appropriate

All accounting courses must be taken at Florida International University; courses from other universities are not transferable unless approved in advance by the Director of the School of Accounting.

Academic Standards and Policies

1. Students must earn a minimum grade of 'C' in all 4000-level accounting, business law, and tax courses.
2. Students not achieving a grade of 'C' or better in two enrollments in any course will be dropped automatically from the Accounting program. In extenuating circumstances, students may be able to continue in the program after filing a written appeal to the Continuation and Retention Committee. Appeals should be addressed to the Director, School of Accounting. A student may have no more than three re-enrollments.
3. Students who wish to take more than two accounting and tax courses in one semester must file a formal request to do so with the Continuation and Retention Committee.
4. Prerequisites for all accounting and tax courses are strictly enforced.
5. Students taking accounting and tax courses are expected to seek counsel...
from Accounting advisors before registering.
6. Students who work more than 20 hours per week are urged to discuss the composition of their schedule and number of courses they should take with an Accounting advisor before registering.
Decision Sciences and Information Systems

Christos P. Koulimas, Professor and Chair
Dinesh Batra, Associate Professor
Stylianos Drakatos, Visiting Lecturer
Joyce J. Elam, Professor, James L. Knight Eminent Scholar, and Dean
S. Christopher Ellis, Instructor
Irma Becerra Fernandez, Assistant Professor
Sushil K. Gupta, Professor
Faisal Kaleem, Instructor
Gerard Klonarides, Visiting Instructor
Kuldeep Kumar, Professor and Ryder Eminent Scholar
George J. Kyparisis, Professor
Yair Levy, Instructor and Online Learning Project Manager
Cherie Long, Assistant Professor
Tomislav Mandakovic, Professor
Ligia Mintchev, Instructor
Kenneth E. Murphy, Assistant Professor
Jose Noguera, Assistant Professor
Manoel Oliveira, Instructor and Director of Technology
Larry A. Smith, Associate Professor
Duane Truex, Assistant Professor
Tei-Wei Wang, Assistant Professor
Nicole Wishart, Instructor
Steve H. Zanakis, Professor
Peter J. Zegan, Instructor

Purpose

The purpose of the Department of Decision Sciences and Information Systems is to provide students with the knowledge and ability to design, develop, and implement information systems that will help enterprises solve their problems effectively. Students will be given a solid foundation in the design, use, and management of database and telecommunications technology. The Department offers courses in management information systems, management science, production and operations management, e-commerce, and business statistics at both the graduate and undergraduate levels.

Management Information Systems Major

Undergraduate business students can opt to major in Management Information Systems (MIS). This major provides students with the background they need to give informational support for decision-making in organizations and to understand the impact that information systems have on business enterprises.

Graduates will be prepared for entry-level positions in MIS, either in user- or system-oriented departments.

Degree Program Requirements

(120 credit-hours)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower-Division/ Business Pre-Core</td>
<td>60</td>
</tr>
<tr>
<td>Upper-Division/ Business Core</td>
<td>33</td>
</tr>
<tr>
<td>Major Courses</td>
<td>18</td>
</tr>
<tr>
<td>Business Electives</td>
<td>06</td>
</tr>
<tr>
<td>Programming Language Requirement</td>
<td>03</td>
</tr>
</tbody>
</table>

Lower Division/ Business Pre-Core

The “General Information” section in this catalog describes the lower division requirements. The Business Pre-Core requirements are listed in the first section of this “College of Business Administration” chapter.

Students must complete all lower division and Business Pre-Core requirements no later than the first semester of their third year of undergraduate study.

Upper Division/Business Core

The College’s Business Core Requirements are listed in the first section of this “College of Business Administration” chapter.

Required Major Courses (3 credit-hours each)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM 4113</td>
<td>Systems Analysis and Design</td>
</tr>
<tr>
<td>ISM 4210</td>
<td>Data Base Applications</td>
</tr>
<tr>
<td>ISM 4400</td>
<td>Management Support Systems</td>
</tr>
<tr>
<td>ISM 4220</td>
<td>Business Data Communications</td>
</tr>
</tbody>
</table>

Business Electives

Take any two of the courses listed below (3 credit-hours each):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM 3130</td>
<td>Implementing Enterprise Systems</td>
</tr>
<tr>
<td>ISM 4151</td>
<td>Systems Management</td>
</tr>
<tr>
<td>ISM 3153</td>
<td>Enterprise Information Systems</td>
</tr>
<tr>
<td>ISM 4054</td>
<td>Introduction to Web Management</td>
</tr>
</tbody>
</table>

Programming Language Requirement

Students may choose an elective from one of the following 3 credit-hour program language courses: C, C++, Pascal, Visual Basic, Visual C++, or JAVA.
Finance

Emmanuel Roussakis, Florida
International Bankers Association
Professor of Finance; Director, Certificate Programs in Banking, and Chair
Gary Anderson, Associate Professor
Joel Barber, Associate Professor
Robert Bear, Associate Professor
Gerald O. Bierwag, Ryder Professor
Chun-Hao Chang, Associate Professor
Robert T. Daigler, Associate Professor
Krishnan Dandapani, Professor
Shahid Hamid, Associate Professor and Director, M.S.F. Program
James Keys, Instructor
Raul Moncarz, Professor and Vice Provost, Academic Affairs
Ali M. Parhizgari, Professor
Arun Prakash, Professor
Rajeswar Sirpal, Instructor
William Welch, Associate Professor
John S. Zdanowicz, Professor and Director, Center for Banking and Financial Institutions, and Director, Jerome Bain Real Estate Institute

Purpose

The Department of Finance seeks to provide students with solid theoretical and practical knowledge in the areas of banking, corporate finance, investments, portfolio management, financial risk management, financial engineering, financial institutions, markets, and international finance.

Through the Jerome Bain Real Estate Institute, the Department also offers an undergraduate major in Real Estate. Created through a gift from the Educational Foundation of the Realtors Association of Greater Miami and the Beaches, the Institute seeks to be a premier, University-based real estate educational and research center, known for its exceptional expertise in international real estate transactions.

Finance Major

Undergraduate business students can opt to pursue a Finance major. Those who do so graduate prepared to enter positions in corporations, financial institutions, brokerage firms, investment banks, and government. They also are prepared for post-graduate studies in all areas of business.

Degree Program Requirements (120 credit-hours)

| Lower-Division/ | Business Pre-Core | 60 hours |
| Upper-Division/ | Business Core | 33 hours |
| Major Courses | | 21 hours |

Lower Division/Pre-Business Core

The “General Information” section in this catalog describes the lower division requirements. The Business Pre-Core requirements are listed in the first section of this “College of Business Administration” chapter. Students must complete all lower division and Business Pre-Core requirements no later than the first semester of their third year of undergraduate study.

Upper Division/Business Core

The College’s Business Core Requirements are listed in the first section of this College of Business Administration chapter.

Major Courses (3 credit-hours each)

| REE 4043 | Real Estate Analysis |
| REE 4204 | Real Estate Financial Analysis |
| REE 4303 | Real Estate Investment |
| REE xxxx | Real Estate Elective |
| REE or FIN | Real Estate or Finance Elective |

The remaining six credit-hours must be selected from real estate electives or courses approved by a College advisor.

Academic Standard

The Department of Finance requires that students receive a grade of “C” or higher in all courses in order to remain in the degree program.

Real Estate Major

Degree Program Requirements (120 credit-hours)

| Lower-Division/ | Business Pre-Core | 60 hours |
| Upper-Division/ | Business Core | 33 hours |
| Major Courses | | 21 hours |

Lower Division/Pre-Business Core

The “General Information” section in this catalog describes the lower division requirements. The Business Pre-Core requirements are listed in the first section of this “College of Business Administration” chapter. Students must complete all lower division and Business Pre-Core requirements no later than the first semester of their third year of undergraduate study.

Upper Division/Business Core

The College’s Business Core Requirements are listed in the first section of this “College of Business Administration” chapter.
Management and International Business

Constance S. Bates, Associate Professor and Barsky-Greenstein Professor
Mernoush Banton, Instructor
Laquita Blockson, Lecturer
Gary Dessler, Professor
Herman Dorsett, Associate Professor
Dana L. Farrow, Professor
Earnest Friday, Assistant Professor
Ronald Gilbert, Associate Professor
Carolina Gomez, Assistant Professor
Robert Hogner, Associate Professor
Laura Kozloski, Lecturer
K. Galen Kroeck, Professor and Chair
Jan B. Luytjes, Professor
Karl O. Magnussen, Professor
Modesto A. Maiduque, Professor and University President
J. Randall Martin, Lecturer
Andrew McChesney, Chapman Emeritus Scholar in Management and Ethics
Sherry Moss, Associate Professor and Director, Pre-Core Program
Karen Paul, Professor
Clifford Perry, Distinguished Professor
Donald Roomes, Instructor and Director, Weekend B.B.A. Program
Juan Sanchez, Associate Professor
Philip Shepherd, Associate Professor
Ronnie Silverblatt, Associate Professor
George Sutija, Associate Professor
Enzo Valenzi, Professor
Deborah Vidaver-Cohen, Associate Professor
Mary Ann Von Ginow, Professor and Director, CIBER

Purpose
The Department of Management and International Business seeks to provide undergraduate students with courses that emphasize the most current knowledge in the profession.

Management Major
Undergraduate students can select a general Management Major, a Human Resource Management Major, an International Business Major, a Management Major with an Entrepreneurship Track or a Management Major with a Business Environment Track.

The Department also offers co-op and internship opportunities to undergraduate students through the University's Career Services Office (GC 230). To qualify for academic credit in these activities, students must have a 2.75 GPA and approval from the Department Chair.

Degree Program Requirements (120 credit-hours)
Lower-Division/Business Pre-Core 60 hours
Upper-Division/Business Core 33 hours
Major Courses 21 hours
Lower Division/Pre-Business Core
The "General Information" section in this catalog describes the lower division requirements. The Business Pre-Core requirements are listed in the first section of this "College of Business Administration chapter." Students must complete all lower division and Business Pre-Core requirements no later than the first semester of their third year of undergraduate study.

Upper Division/Business Core
The College's Business core Requirements are listed in the first section of this "College of Business Administration chapter." Major Courses (3 credit-hours each)
Students should note that not all courses with a MAN prefix are actually management courses. Therefore, they should consult with a College advisor to confirm that their program of study reflects the degree requirements.

This major is designed for students interested in a general management major, with additional tracks in Business Environment and Entrepreneurship. To fulfill this major, students must meet their basic requirements of 60 hours of Lower Division credit-hours of Business Core courses. They must take the following three required courses (9 credit-hours):
MAN 4151 Organizational Behavior
MAN 4301 Human Resource Management
MAN 4602 International Business
PLUS one (3 credit-hours) of the following:
MAN 4701C Business in Society
MAN 4064 Crisis Management
MAN 4711 Business-Community Leadership
MAN 4741 Managing Change in Organizations
PLUS any three courses (9 credit-hours) from the following:
MAN 4113 Entrepreneurship
MAN 4701C Business in Society
MAN 4065 Business Ethics
MAN 4102 Managing Diversity
MAN 4120 Intergroup Relations in Organizations
MAN 4142 Intuition in Management
MAN 4201 Organization Theory
MAN 4520 Recruitment and Staffing
MAN 4322 Human Resource Information Systems
MAN 4330 Compensation and Benefits
MAN 4401 Collective Bargaining
MAN 4410 Union-Management Relations
MAN 4584 Productivity and Project Management
MAN 4600 International Management
MAN 4604 Crisis Management
MAN 4618 Management of Multimedia Enterprise
MAN 4633 Strategic Management in the MNC
MAN 4711 Business-Community Leadership
MAN 4741 Managing Change in Organizations
MAN 4802 Small Business Management

Human Resource Management
Degree Program Requirements (120 credit-hours)
This major is designed for students interested in human resource management. To fulfill this major, students must meet their basic requirements of 60 hours of Lower Division credit-hours and 33 credit-hours of Business Core courses. In addition, they must take 21 credits as follows:
MAN 4301 Human Resource Management
MAN 4320 Recruitment and Staffing
MAN 4322 Human Resource Information Systems
MAN 4330 Compensation and Benefits
MAN 4352 Training and Development
PLUS Either:
MAN 4402 Collective Bargaining
or
MAN 4410 Union-Management Relations

PLUS
Either:
MAN 4102 Managing Diversity or
BUL 4540 Employment Law

International Business
Degree Program Requirements
(120 credit-hours)

This major provides students with an intensive, in-depth study of the international dimensions of business. To fulfill this major, students must meet their basic requirements of 60 hours of Lower Division credit-hours and 33 credit-hours of Business Core courses. In addition, students must take 21 credit-hours from the following list:

Required Courses
MAN 4602 International Business
FIN 4604 International Finance
MAN 4600 International Management
MAR 4156 International Marketing
AND
Either:
ACG 4215 International Accounting
or
MAN 4633 Strategic Management in Multinational Corporations

PLUS
Either:
Two elective courses (6 credit-hours) from the electives list below.
or
One elective course (3 credit-hours) and one area studies course (3 credit-hours) (listed below):
Electives:
FIN 4614 International Capital Markets
FIN 4615 International Banking
MAN 4610 International and Comparative Management
MAN 4613 International Risk Assessment
MAR 4144 Export Marketing
Area Studies:
MAN 4660 Business in Latin America
INR 3243 International Relations of Latin America
INR 3246 International Relations of the Caribbean
INR 3214 International Relations of Europe
INR 3262 International Relations of Russia and the Former USSR
INR 3274 International Relations of the Middle East
INR 3253 International Relations of Sub-Saharan Africa
INR 3223 International Relations of Japan and the United States
INR 3232 International Relations of China

Entrepreneurship Track

The Entrepreneurship Track is designed for students interested in developing new business initiatives and in acquiring self-reliance in the business world.

Students must take the following seven courses (21 credit-hours):
MAN 4151 Organizational Behavior
MAN 4301 Human Resource Management
MAN 4602 International Business
MAN 4113 Entrepreneurship
FIN 4345 Credit Analysis and Loan Evaluation
MAN 4802 Small Business Management

PLUS
Either:
MAR 4853 Marketing Strategy or
MAR 4722 eMarketing

Business Environment Track

Students must take the following seven courses (21 credit-hours):
MAN 4151 Organizational Behavior
MAN 4301 Human Resource Management
MAN 4602 International Business
MAN 4701C Business in Society
MAN 4064 Crisis Management
MAN 4711 Business-Community Leadership
MAN 4741 Managing Change in Organizations

Entrepreneurship Minor for Non-Business Students

Non-business students wishing to earn a minor in Entrepreneurship must complete the following five courses (15 credit-hours):
GEB 4113 Entrepreneurship
ACG 3024 Accounting for Managers and Investors
FIN 3140 Personal Financial Management
MAN 4802 Small Business Management
MAR 3023 Marketing Management

Academic Standard

The Department of Management and International Business requires that students receive a grade of "C" or higher in all courses in order to remain in a degree program.
Marketing

J.A.F. Nicholls, Professor and Chair
Peter R. Dickson, Eminent Scholar
in Marketing, Knight Ridder Center
for Excellence in Management
Timothy Dugan, Visiting Instructor
Sally Gallion, Assistant Dean
Jonathan N. Goodrich, Professor
Barnett A. Greenberg, Professor
Judy Harris, Assistant Professor and
Burdines Professor of Retailing
Carl Kranendonk, Instructor
Walfried Lassar, SunTrust Professor
Tiger Li, Associate Professor
Paul Minardi, BMI Professor of
Marketing, Director of Ph.D.
Program
Michael S. Munro, Instructor
Marta Ortiz, Associate Professor
Lynda Raheem, Instructor and
Assistant Dean
H. Paul Root, James K. Batten
Eminent Scholar in Strategic
Management, Lecturer, and
Director of the Knight Ridder
Center for Excellence in
Management
Sydney Roslow, Professor Emeritus
Bruce Seaton, Associate Professor
Kimberly Taylor, Associate Professor
John Tsallikis, Associate Professor

Purpose

The mission of the undergraduate marketing major is to graduate marketing professionals, in the process of which to create enduring value for our students, for our alumni, and for the business, professional, and academic communities we serve. To this end, we seek to graduate well-educated and technologically sophisticated students who can think critically and creatively about a changing world and understand marketing's role in an organization.

Curriculum Educational
Objectives

The marketing major aims to prepare students for initial positions in marketing. The marketing program emphasizes a general knowledge of the marketing field and the language, principles, and techniques fundamental to the theory and practice of marketing. In addition, the program seeks to develop an awareness of the social and cultural environments in which marketing occurs, effective oral and written skills, and analytical and technological skills.

Marketing Major

Students who decide to major in marketing will be given a broad foundation in marketing professionalism, concepts, and practice in their contemporary contexts. Students will have opportunities to pursue greater depth of understanding in select areas of the discipline; such areas include e-marketing, international marketing, integrated marketing communications, and retail marketing. Graduates with a major in marketing are qualified for a variety of positions in the field; they are also prepared for graduate education.

Degree Program Requirements

(120 credit-hours)

Lower-Division/
Business Pre-Core 60 hours
Upper-Division/
Business Core 33 hours
Major Courses 21 hours

Lower Division/Pre-Business Core

The "General Information" section in this catalog describes the lower division requirements. The Business Pre-Core requirements are listed in the first section of this "College of Business Administration" chapter. Students must complete all lower division and Business Pre-Core requirements no later than the first semester of their third year of undergraduate study.

Upper Division/Business Core

The College's Business Core Requirements are listed in the first section of this "College of Business Administration" chapter.

Major Courses (3 credit-hours each)

Undergraduate students majoring in marketing must complete 21 credit hours of 4000-level marketing course work, of which the following 15 credit-hours are required:

MAR 4001 Marketing Tools I
MAR 4002 Marketing Tools II
MAR 4503 Consumer Behavior
MAR 4613 Managing Marketing Information
MAR 4853 Marketing Strategy

Students can fulfill their other credit-hours with classes from the list below; however, they should consult with their College advisor before selecting their other courses:

MAR 4025 Marketing of Small Business Enterprises
MAR 4144 Export Marketing

MAR 4156 International Marketing
MAR 4203 Marketing Channels
MAR 4213 Transportation Logistics
MAR 4231 Retail Marketing
MAR 4232 Current Issues in Retail Marketing
MAR 4323 Integrated Marketing Communication
MAR 4333 Promotional Strategy
MAR 4334 Advertising Campaign Management
MAR 4400 Personal Selling
MAR 4403 Sales Management
MAR 4803 Cases in Marketing Management
MAR 4941 Marketing Internship
MAR 4949 Cooperative Education in Marketing
MAR 4722 e-Marketing
MAR 4676 Cyber Marketing

Logistics Track

The Ryder Center for Logistics offers a logistics track to undergraduates pursuing their Bachelor of Business Administration. Students who opt to take a logistics track will study a wide range of topics, including distribution channels, materials planning, purchasing, warehousing, inventory management, transportation, global sourcing and logistics, and strategic logistics management.

Degree Program Requirements

(120 credit-hours)

Lower-Division/
Business Pre-Core 60 hours
Upper-Division/
Business Core 33 hours
Track Courses 09 hours
Electives 06 hours

Lower Division/Pre-Business Core

The "General Information" section in this catalog describes the lower division requirements. The Business Pre-Core requirements are listed in the first section of this "College of Business Administration" chapter. Students must complete all lower division and Business Pre-Core requirements no later than the first semester of their third year of undergraduate study.

Upper Division/Business Core

The College's Business Core Requirements are listed in the first section of this "College of Business Administration" chapter.

Track Courses (3 credit-hours each)

TRA 4012 Principles of Transportation
Electives: please consult with your advisor about recommended electives.

**Marketing Minor**

Qualified undergraduate students who are not business majors and who have a 2.50 cumulative GPA must apply to the College of Business Administration to request a minor in Marketing.

To earn a minor in Marketing, students must complete 15 credit-hours of course work as follows:

**Required Courses**

- MAR 3023  Marketing Management
- MAR 4503  Consumer Behavior

In addition, students must select and complete any three of the courses listed below:

- MAR 4025  Marketing of Small Business Enterprises
- MAR 4144  Export Marketing
- MAR 4156  International Marketing
- MAR 4208  Marketing Channels
- MAR 4231  Retail Marketing
- MAR 4232  Current Issues in Retail Marketing
- MAR 4323  Integrated Marketing Communications
- MAR 4333  Promotional Strategy
- MAR 4334  Advertising Campaign Management
- MAR 4400  Personal Selling
- MAR 4403  Sales Management
- MAR 4613  Marketing Research
- MAR 4803  Cases in Marketing Management
- MAR 4853  Marketing Strategy
- MAR 4722  e-Marketing
- MAR 4676  CyberMarketing

**Retail Management Certificate**

Open to all undergraduate business students in the College of Business Administration, the Certificate in Retail Management was designed for those particularly interested in acquiring additional expertise in retail management. It’s especially appropriate for those students who are:

- Marketing or Management Information Systems (MIS) majors considering a career in e-commerce
- Marketing or Finance majors interested in retail planning or buying
- Marketing or Management majors considering a career in store management

- Students in any major planning to own/operate their own business

To earn the Certificate in Retail Management, students must successfully complete the program’s course and experiential learning requirements. They must achieve a grade of “B” or better in all of their coursework, which includes:

- MAR 3023  Marketing Management
- MAN 3025  Organization and Management
- FIN 3403  Financial Management
- CGS 3300  Introduction to Information Systems
- MAR 4231  Retail Marketing
- MAR 4232  Current Issues in Retailing

In addition to coursework, students in the program must attend four Friday half-day skills workshops (two each semester) and complete a retailing internship—most of which are paid and which the College will help them secure.

Participation in this program, which begins each Fall semester, is limited to twenty students. The application deadline is June 30. To be eligible, applicants must be enrolled in an undergraduate degree program in the College of Business Administration.

To receive an application packet, you can visit our web site at [www.fiu.edu/~cba/retail](http://www.fiu.edu/~cba/retail). If you would like more information about this option, stop by BA 307, call (305) 348-2571 (TDD via FRS 1-800-955-8771), fax (305) 348-3792, or email retail@fiu.edu.

**Academic Standard**

The Department of Marketing requires that students receive a grade of “C” or higher in all courses in order to remain in a degree program.
Course Descriptions

Definition of Prefixes:
ACG-Accounting; BAN-Banking;
BUL-Business Law; CGS-Computer
and Information Systems; ECO-
Economics; FIN-Finance; GEB-
General Business; ISM-Information
Systems Management; MAN-
Management; MAR-Marketing; QMB-
Quantitative Methods in Business;
REE-Real Estate; SPC-Speech; TAX-
Taxation; TRA-Transportation.

F-Fall semester offering; S-Spring
semester offering; SS-Summer semester
offering.

Departmental or School/College
Prefixes:
AC - School of Accounting
AS - College of Arts & Sciences
BA - College of Business Administration
DS - Decision Sciences and Information
Systems
EC - Department of Economics
FI - Finance
MA - Management and International
Business
ME - Marketing
MS - Mathematical Sciences
TD – Theatre and Dance

ACG 2021 Accounting for Decisions
(AC) (3). Accounting concepts and
analyses essential to determining the
income and financial position of a
business enterprise. Prerequisites: ECO
2023, or equivalent and sophomore
standing.

ACG 3024 Accounting for Managers
and Investors (AC) (3). Introduction
to the principles used in measuring
organization activities. For non-
business majors only.

ACG 3301 Accounting for Planning
and Control (AC) (3). Use of
accounting concepts, analyses, and
financial data to aid in the evaluation
of the business enterprise; and to aid
management in its planning, organiz-
ing, and controlling functions. Prer-
erequisites: ACG 2021 or equivalent with
a grade of 'C' or higher.

ACG 4101 Financial Accounting I
(AC) (3). Underlying concepts and
ethical, regulatory and business
environment of financial reporting with
emphasis on measurement, analysis and
interpretation of income, cash flows and
financial position. Prerequisites: MAC 2233 and ACG 3301 or
equivalent with grades of "C" or higher
and junior standing.

ACG 4111 Financial Accounting II
(AC) (3). Underlying concepts and
ethical, regulatory, and business envi-
ronment of financial reporting with
emphasis on measurement, analysis and
interpretation of financial position.
Prerequisite: ACG 4101 with grade of
'C' or higher.

ACG 4201 Financial Accounting III
(AC) (3). Underlying concepts and
ethical, regulatory and business
environment of financial reporting,
with emphasis on accounting for
partnerships, international corpora-
tions, and business combinations.
Prerequisite: ACG 4111 with a grade of
'C' or higher.

ACG 4251 International Accounting
(AC, MA) (3). Comparative analysis of
accounting concepts and practices in
different countries; international ac-
counting standards; problems of ac-
counting for multinational corpora-
tions, including transfers of funds and
income measurement; and the role of
accounting in national economic de-
velopment. Prerequisites: CGS 2100 or
equivalent. ACG 3301 with a grade of
'C' or higher.

ACG 4311 (AC) Applied Accounting
Concepts (3). Intensive study and
application of new topic(s) as a
response to current developments in
the fields of financing accounting,
auditing/assurance, business valuation,
and accounting information systems.
Prerequisites: ACG 4401 with a grade of
"C" or higher.

ACG 4341 Management Accounting
(AC) (3). Determination and control of
production costs; job order and process
systems; actual and standard costs;
budgetary control; performance mea-
urement; ethics; short-run decision
models. Prerequisites: ACG 4101 with
a grade of 'C' or higher.

ACG 4353 Advanced Management
Accounting (3). Discuss defects in
traditional cost management systems,
highlight today's leading edge practices
including ERP, and show how to
design systems benefitting a wide range
of organizations. Prerequisites: ACG
4111, ACG 4341, ACG 4401 with
grades of "C" or higher.

ACG 4401 Accounting Information
Systems (AC) (3). The study of the
concepts and terminology of
accounting information systems and the
use of IT to and decision making in
accounting and auditing. Prerequisites:
CGS 2100 or equivalent with grade of
"C" or better and ACG 4101 with grade
of "C" or better.

ACG 4501 Governmental and
Institutional Accounting (AC) (3).
Budgeting, accounting, and reporting
standards and practices for government
and other not-for-profit entities.
Prerequisite: ACG 4111 or equivalent
with grade of "C" or higher.

ACG 4651 Auditing (AC) (3).
Standards and procedures of auditing
financial information, ethics and
responsibilities of auditors, collection
and documentation of audit evidence,
reporting and international auditing
standards. Prerequisite: ACG 4111 with
a grade of "C" or higher.

ACG 4671 Operational Auditing
(AC) (3). Examines operational
auditing as a professional discipline for
testing and evaluating totality of
planning and operating controls;
particular attention to development,
selling and implementation of
recommendations for operating im-
provement and cost containment.
Prerequisite: ACG 4111 or equivalent
with grade of "C" or higher.

ACG 4692 Accounting Information
Presentation (AC) (3). Seminar in
the development and presentation of oral
and written information as required by
authoritative standards and pronuncia-
tions in accounting and auditing.
Prerequisites: ACG 4651 and ACG
4341 with grades of 'C' or higher.

ACG 4821 Accounting and Social
Responsibility (AC) (3). Ethical and
social responsibilities of accountants
with emphasis on professional ethics in
corporate, government and public
accounting structure and practices and
their effects on employees, environ-
ment and community. Prerequisites:
ACG 4341 ACG 4651 with grades of
'C' or higher.

ACG 4901 Independent Study in
Accounting (AC) (1-3). Individual
conferences, supervised readings, and
reports on personal investigations.

ACG 4931 Special Topics in Ac-
counting (AC) (1-3). For groups of
students who wish an intensive study of
a particular topic or a limited number
of topics not otherwise offered in the
curriculum. Prerequisite: Permis-
sion of the Director of the School of
Accounting.
BUL 4310 The Legal Environment of Business (AC) (3). The course includes issues such as: Contracts, Torts, Legal/Political/Economic aspects of Ethics and the Law, U.C.C., Antitrust Law, Employment Law, Administrative Law, Securities Law, and International Business Law topics. Prerequisite: Senior standing.

BUL 4320 Business Law I (AC) (3). Substantive issues and principles of business law, including: the American legal system, torts, contracts, Uniform Commercial Code sales, property law, credit and secured transactions, and ethical issues in business law.

BUL 4540 Employment Law (3). Legal and regulatory issues to include: the ADA, privacy issues, sexual harassment, race, gender, religion, age, and other areas of discrimination. Also OSHA, ERISA, workers' compensation, regulations affecting job performance evaluation.

BUL 4650 Special Topics in Business Law (AC) (1-6). Intensive study for groups of students of a particular topic, or a limited number of topics, not otherwise offered in the curriculum. Prerequisite: Permission of the Director of the School of Accounting.

BUL 4904 Independent Study in Business Law (AC) (1-6). Individual conferences; supervised readings; reports on personal investigations. Prerequisite: Permission of the Director of the School of Accounting.

CGS 3300 Introduction to Information Systems (DS) (3). Survey major information systems (I.S.) problems in organizations. Brief study of basic computer concepts; I.S. development cycle; relation of I.S. and decision-making; microcomputer database, spreadsheet and wordprocessing business applications. Prerequisite: CGS 2060 or CGS 2100.

ECO 2013 Principles of Macroeconomics (EC) (3). Introduction to economic analysis of the overall economy, national income accounting, unemployment, inflation, monetary and fiscal policies, budget deficits and debt, long-run growth.

ECO 2023 Principles of Microeconomics (EC) (3). Introduction to economic analysis of individual units—households, and firms. Operation of markets; supply and demand analysis.

ECO 3202 Applied Macroeconomics (EC) (3). Aggregate economic performance and business conditions analysis, nature and causes of economic expansions and recessions, inflation, balance of trade, balance of payments, and exchange rate problems, fiscal and monetary policies, short-run instability and long-run growth. Cannot be taken for credit concurrently with, or after taking ECO 3203. Prerequisites: ECO 2013 or ECO 3011.

FIN 3005 Introduction to Business Finance (3). Application of financial management to organizations. Analysis of financial statements, cash budgeting, time value of money, etc. Prerequisite: ACG 2021.

FIN 3105 Personal Investment Management (FI) (3). An introductory course to acquaint individuals with basic principles of investments. Topics include the buying and selling of stocks, bonds, and commodities. The operation of markets and planning for risks and returns.

FIN 3140 Personal Financial Management (FI) (3). An introductory course to help individuals achieve their personal financial goals. Topics include personal budgeting, taxes, credit, major expenses, insurance, investments, and retirement planning.

FIN 3244 Introduction to Financial Markets (I). Introduction to Financial Markets is an overview of credit, money and equity markets and the roles of depository institutions in these markets.

FIN 3403 Financial Management (FI) (3). A study of financial decision making in the corporate form of enterprise. An analysis of the sources and uses of funds. Emphasis is placed on working capital management; capital budgeting techniques; short and long term financing; and capital structure and the value of the firm. Prerequisite: ACG 2021 and STA 2023 or equivalent.

FIN 3424 Intermediate Finance (FI) (3). Advanced theories and applications underlying financial decision making. Topics may include valuation of assets and liabilities, advanced time value, mortgage math, commercial loans, capital budgeting, cost of capital, capital structure, dividend policy, restructuring, mergers and acquisition, bankruptcy, cash management, and agency theory. Prerequisite: FIN 3403.

FIN 3652 Asian Financial Markets and Institutions (FI) (3). The course provides students, who are interested in Asia, an exposure to Asian financial market practices and institutional framework. The materials discussed provide a basic framework for the non-finance student to understand the basic concepts and tools of financial markets and institutions, and the specific intricacies of the various Asian countries and their institutional practices.

FIN 3949 Cooperative Education in Finance (FI) (3). Semesters of full-time classroom study are alternated with semesters of full-time remunerated employment which closely relates to the student's area of academic study. Carefully designed and monitored work assignments are intended to develop the student's understanding of the relationship between theory and practice in an authentic work environment. Prerequisite: Approval of Chairperson.

FIN 4303 Financial Markets and Institutions (FI) (3). Financial markets and the role of financial intermediaries in these markets. Emphasis will be upon the objectives and policies of financial intermediaries within the constraints of law and regulatory authorities. Prerequisite: FIN 3403 or equivalent.

FIN 4324 Commercial Bank Management (FI) (3). The management of bank assets and liabilities; specialized banking functions; and the role of the commercial bank in financing business. Prerequisite: FIN 3403 or equivalent.

FIN 4345 Credit Analysis and Loan Evaluation (FI) (3). Topics to include: introduction to commercial lending; secured lending; accounts receivable financing and factoring; inventory financing; introduction to lending vehicles; short term lending; domestic taxation; consolidations; forecasting and intermediate term cash flow lending; term loan agreements/commitments; subordinations and guarantees; foreign exchange; international transactions and leasing. Prerequisite: FIN 3403.

FIN 4435 Capital Budgeting Techniques and Applications (FI) (3). The application of contemporary theory and techniques to the problem of long-term resource allocation. A review of capital budgeting techniques and the implications the investment and management of capital have toward the goal of
maximizing the value of the firm. Prerequisite: FIN 3424 or equivalent.

FIN 4443 Policies for Financial Management (FI) (3). The process of securing and allocating funds within the organization, with emphasis on the relevant financial decision-making and policy aspects. Prerequisite: FIN 3424 or equivalent.

FIN 4461 Financial Statement Analysis (FI) (3). This course explores methods of deriving information from financial statements, including both published documents and privately prepared reports, that would be of interest to lenders and investors. Extensive use is made of computer assisted financial planning forecasting models. Prerequisite: FIN 3403.


FIN 4502 Securities Analysis (FI) (3). The examination of the determinants of the values of common and preferred stocks, bonds, and warrants. The timing of security purchases and sales and an introduction to portfolio construction techniques. Prerequisite: FIN 3403.

FIN 4514 Portfolio Analysis and Management (FI) (3). Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to the goals of individuals, corporations, and various financial institutions. Prerequisite: FIN 4504 or equivalent.

FIN 4515 Options Markets (FI) (3). An examination of the risk-return structure of options on stocks, indexes, debt, and futures. An examination of the structure of these markets and strategies for their use in portfolios. Prerequisite: FIN 4504.

FIN 4533 Futures Markets (FI) (3). This course covers the institutional, speculative, and hedging concepts associated with futures markets. Individual and institutional uses of these markets are examined, with the emphasis on the risk-return aspects of the futures and cash markets. Prerequisites: FIN 3484 or FIN 4504 or FIN 4303.

FIN 4604 International Financial Management (FI, MA) (3). Capital budgeting operational analysis and financial decisions in the multinational context. Working capital management and intrafirm fund transfers. Measurement and evaluation of the risk of internationally diversified assets. Prerequisite: FIN 3403 or equivalent.

FIN 4614 International Capital Markets (FI, MA) (3). The world’s major non-U.S. stock exchanges; international diversification and the international capital asset pricing model; foreign exchange markets and Euro-currency markets. Prerequisite: FIN 3403.

FIN 4615 International Banking (FI) (3). Introductory survey of issues that deal with international aspects of banking. The course provides an overview of the structure and operation of the international banking function, the services offered, supporting documentation, and measures to improve the efficiency and effectiveness of the international banking organization. The purpose of the course is to acquaint the students with the daily activities in international banking. Prerequisites: FIN 3403 or equivalent.

FIN 4651 Latin American Financial Markets and Institutions (3). This course examines the Latin American financial climate and especially financial markets and institutions. Topics include evolution of the money and capital markets, regulation, banking innovations, the role of foreign banking, integration and globalization of banking. Prerequisite: FIN 3403.

FIN 4904 Independent Study in Finance (FI) (1-6). Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

FIN 4934 Special Topics in Finance (FI) (1-6). For groups of students who desire an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

FIN 4941 Finance Internship (FI) (1-3). Full-time supervised work in a selected bank or other organization in the area of finance. Prerequisites: At least 12 hours of finance, consent of instructor, and department chairperson.

FIN 4949 Cooperative Education in Finance (FI) (3). Semesters of full-time classroom study are alternated with semesters of full-time remunerated employment which closely relates to the student’s area of academic study. Carefully designed and monitored work assignments are intended to develop the student’s understanding of the relationship between theory and practice in an authentic work environment. Prerequisite: Approval of Chairperson.

GEB 2011 Introduction to Business (MA) (3). Introduction to the business world, including the functions of business and management. Examination of the free enterprise system, forms of business ownership and the role of business in society. (F)

GEB 3111 The Business Plan (1). To provide the knowledge and skills needed to write a business plan for a beginning operation, a new business, or a new venture for an existing business.

GEB 3935 Career Planning and Management (MA) (1). Course will respond to the need for students to make sound career decisions. Students will be able to prepare for success in a changing work environment and to use the skills introduced to cope with career decision-making.

GEB 4113 Entrepreneurship (MA) (3). An introduction to the general theories, principles, concepts and practices of entrepreneurship. Heavy emphasis is placed on lecture, readings, case studies and group projects.

ISM 3012 Introduction to Decision and Information Systems (3). Understanding how computer systems can be used to improve decision making. Includes applications and impacts of IS, databases, decision support systems, production planning and control systems, and resource allocation systems. Not available to business majors.

ISM 3130 Implementing Enterprise Systems (3). This course focuses on Enterprise Systems functionality and Implementation System architecture, process re-engineering, implementation methodologies and tools, and system configuration are assigned. Prerequisite: Enterprise Information Systems.

ISM 3153 Enterprise Information Systems (3). Designed to provide the students with a comprehensive understanding of Enterprise Information Systems.
Systems (EIS) and how these systems are able to achieve companies' information and process integration. The implications of EIS on companies' organizational structure, processes, and people's working practices are discussed. Technical aspects of Enterprise Systems such as networks/architecture, system administration and security, communication interfaces, and application development/tools are discussed. The course also introduces the student to Enterprise Systems Integration, Web-Enabled Enterprise Systems, Customer Relationships Management, Data Warehousing, and E-commerce concepts/tools. Hands-on experience with an Enterprise System is provided.

ISM 3949 Cooperative Education in Management Information Systems I (DS) (1-3). A program enabling MIS majors to work in jobs significantly related to their major area and career goals. Placement must be approved by instructor.

ISM 4054 Introduction to Web Management (3). Designed to mesh current thinking relative to the development and effective use of web sites in organizations. Topics include the understanding of major web related hardware and software available, and how to manage and use them in organizations. During the course, students will create a commercial web site for a desired known corporation.

ISM 4113 Systems Analysis and Design (DS) (3). Topics include: information systems concepts; the structure, design, and development of the data base; and techniques and procedures used in the analysis and design of systems projects. Prerequisite: ISM 4210.

ISM 4151 Systems Management (DS) (3). An in-depth, case-oriented, study of the problems encountered in the management of systems projects. Analyst-user conflicts, communication problems within the systems department, computer evaluation and selection techniques, computer negotiations and contracts, and project management are covered in detail. Where appropriate, field study investigating a topical area will be carried out by each student.

ISM 4210 Data Base Applications (DS) (3). Application of the data base technology and concepts to organization problems. Includes DBMS components; hierarchic, network and relational approaches to DBMS design. Hands on experience with a DBMS. Prerequisite: CGS 3300 and CGS 3403 or COP 2120.

ISM 4220 Business Data Communications (3). Application of telecommunication technology and concepts to organizational problems. Includes components of telecommunication network, management of a network, and issues related to installing and managing interorganizational systems.

ISM 4340 Organizational Impacts of Information Systems (DS) (3). Investigation of the human and organizational factors relevant to design and implementation of information systems in complex organizations. Prerequisites: MAN 3025 and CGS 3300.

ISM 4400 Management Support Systems (3). Understanding of how Decision Support Systems (DSS) and Expert Systems (ES) support decision making in organizations. Includes architecture of a DSS/ES and how these systems are developed. Hands-on experience with DSS tools. Prerequisites: ISM 4210.

ISM 4949 Cooperative Education in Management Information Systems II (DS) (1-3). A continuation of ISM 3949. A program enabling MIS majors to work in jobs significantly related to their major area and career goals. Placement must be approved by instructor. Prerequisite: ISM 3949.

MAN 3025 Organization and Management (MA) (3). An analysis of organizations and the management processes of planning, organizing, directing, and controlling in the context of socio-technical systems. Individual, group, intergroup, and organizational responses to various environments and technologies are studied, as are pertinent techniques of manpower management.

MAN 3062 Business, Ethics and Environment (MA) (1). This course will include personal values and ethics, role of business as a social institution, corporate citizenship, creation of ethical work climates, ethics in a global economy, and emerging issues. Prerequisite: MAN 3025.

MAN 3503 Managerial Decision Making (DS) (3). This course concentrates on practical decision problems for the manager in an organization. Topics include decision-making theory, linear programming and extensions, Markov Chains, queuing, simulation, and decision support systems. Use of computer packages. Prerequisites: College Algebra, STA 2023 or the equivalent, and QMB 3150.

MAN 3949 Cooperative Education Management I (MA) (3). A special program enabling management majors to work in jobs significantly related to their major area and career goals. Specific placement must be approved by the Department Chairperson prior to enrollment. Prerequisite: Qualification for Cooperative Education Program; 2.75 GPA; and senior standing.

MAN 4028 Community Service Program Management (ME) (3). An applied course in managing community service programs. Contemporary readings combined with development and/or management of a community service program.

MAN 4064 Crisis Management (MA) (3). Examines the dilemmas of managerial responsibility that occur when organizations face crisis because of disasters or other unexpected circumstances. Emphasis is placed on how to avoid or minimize the organizational or environmental damage a crisis can cause.

MAN 4065 Business Ethics (MA) (3). The application of ethical theory to business management. A review of ethical systems, and examples, theoretical and practical of institutionalizing ethics in organizations. Case analyses used, and written projects required. Prerequisites: MAN 3701 or permission of the instructor.

MAN 4102 Managing Diversity (MA) (3). Examines how workforce diversity can lead to competitive advantage and ethical, fair-minded decision making. Includes topics of gender, race, ethnicity, and other areas of diversity. Covers perception and stereotyping, sexual harassment, the "glass ceiling," and legal issues. Prerequisite: MAN 3025.

MAN 4120 Intergroup Relations in Organizations (MA) (3). A study of the psychological and sociological dimensions of intergroup relations. Attention to the problems experienced by subgroups in large and small organizations, with particular reference to ethnic, racial, and sub-cultural groups. The roles and responsibilities of management in the constructive resolution
MAN 4142 Intuition in Management (MA) (3). Balancing Rational and Intuitive approaches for a flexible decision style. Experiential learning individually and in groups. Application of class learnings to life situations. Prerequisite: MAN 3025.

MAN 4151 Organizational Behavior (MA) (3). An analysis of selected concepts in behavioral science, their interaction and application to management. Topics include perception, motivation, and group behavior. Prerequisite: MAN 3025.

MAN 4201 Organization Theory (MA) (3). A comparative analysis of various theories of organization (including the classical, biological, economic, and Cyert-March models); and of their treatment of fundamental structure; conflict communications; group and individual behavior; and decision-making. Primary emphasis on developing an integrated philosophy of organization and management. Prerequisite: MAN 3025 or equivalent.

MAN 4301 Human Resource Management (MA) (3). Attention is focused on the theory and practice of modern personnel management as related to other management functions. Topics include: selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resource management and development at various organizational levels. Prerequisite: MAN 3025.

MAN 4320 Recruitment and Staffing (MA) (3). In-depth study of the personnel staffing function. Includes an analysis of objectives, techniques, and procedures for forecasting manpower needs, recruiting candidates, and selecting employees. Prerequisite: MAN 4301.

MAN 4322 Human Resource Information Systems (MA) (3). A survey of personnel reporting requirements; assessment of information needs; manpower planning; and development of integrated personnel systems. Prerequisite: MAN 3025.

MAN 4330 Compensation and Benefits (MA) (3). Presents the theories and techniques used by management in the areas of work measurement, wage incentives, and job evaluation. Prerequisite: MAN 3025.

MAN 4352 Training and Development (MA) (3). Overview of corporate training functions including needs analysis, training program/content development, training techniques and effective, delivery systems. Management development and presentation skills are emphasized.

MAN 4401 Collective Bargaining (MA) (3). Introduction to labor/management relationships in the United States. Attention to the development of unionism as an American institution, government regulations, and collective bargaining in private and public sectors. A negotiation simulation generally is integrated with classroom work. Prerequisite: MAN 3025.

MAN 4410 Union-Management Relations (MA) (3). Examination of current issues and problems facing unions and management, with emphasis on unfair labor practices, contract administration, and arbitration. Prerequisite: MAN 3025.

MAN 4504 Operations Management (DS) (3). Concepts in design, analysis, and control of operating systems. Facility location and layout, work standards, maintenance, quality control, MRP, planning and scheduling applied to production and service systems. Prerequisite: QMB 3200.

MAN 4523 Production Information Systems (DS) (3). A study of the special problems associated with the development of information systems capable of supporting the production function of an organization. Review of information systems approaches to inventory control and work processing management. Prerequisites: CGS 3300 and MAN 4504, or consent of instructor.

MAN 4584 Productivity and Project Management (DS) (3). Methods and cases to measure, evaluate, plan and improve productivity in business and service organizations; also methods on how to manage projects. Prerequisite: Senior standing in the College.

MAN 4600 International Management (MA) (3). Examines the functions of management in the international firms (e.g., leadership, motivation, communication, human resource development) and issues related to adapting managerial practice to "local" environments. Prerequisite: MAN 3602.

MAN 4602 International Business (MA) (3). An overview course that examines the international business environment (e.g., economic, political, legal, and cultural aspects) and related institutions that impact a global firm (e.g., world banks, the United Nations, and various economic blocs). Prerequisite: ECO 2013, ECO 2023.

MAN 4610 International and Comparative Industrial Relations (MA) (3). Examines selected industrial relations systems of Western Europe, Asia and the Americas, with special emphasis on differences among systems and the reasons such differences exist. The industrial relations significance of the multi-national enterprise and management problems associated with operations in diverse systems are analyzed. Prerequisite: MAN 3602.

MAN 4613 International Risk Assessment (MA) (3). Introduces the types of risk confronting businesses operating internationally. Critiques specific techniques used to assess risk and relates the results to management decision making. Prerequisite: MAN 3602.

MAN 4618 Management of Global Multimedia Enterprises (MA) (3). Multimedia can be used to learn, work, discover, and communicate. Explain how Global entrepreneurial, creative professionals create and/or use multimedia to accomplish their objectives creatively, cost efficiently, and profitably. Prerequisite: MAN 3025.

MAN 4629 International Business Internship (MA) (3). Supervised work in a selected organization in the area of international business. Prerequisite: Consent of instructor and department chairperson.

MAN 4633 Strategic Management in the MNC (MA) (3). Study of the concept and process of MNC strategy. Involves considering the competitive and political structure of the global market, logic of the multinational enterprise, and nature of organizations. Prerequisite: MAN 3602.

MAN 4660 Business in Latin America (MA) (3). This course examines the Latin American business climate and especially U.S.-Latin American Business linkages. Topics include exporting to Latin America, regional economic integration, and examin-ations of individual countries. Prerequisite: MAN 3602.
MAN 4671 Special Topics in International Business (MA) (3). For groups of students who wish to study intensively a particular topic, or a limited number of topics, in international business, not offered elsewhere in the curriculum. Prerequisites: Faculty sponsor and permission of Chairperson.

MAN 4690 Independent Study, in International Business (MA) (3). Individual conferences; supervised readings; reports on personal investigations. Prerequisites: Faculty sponsor and written permission of Chairperson and Dean.


MAN 4711 Business-Community Leadership (MA) (3). Examines the role of the company as a community citizen, focusing on ways business leaders can contribute to strengthening the social fabric of their communities to achieve benefits for both the community and the firm. Prerequisite: MAN 3025.

MAN 4722 Strategic Management (MA) (3). The use of cases, guest lecturers, and gaming to integrate analysis and measurement tools, functional areas, and public policy issues. The objective is to develop skill in broad areas of rational decision-making in an administrative context of uncertainty. Prerequisite: Completion of all core requirements. Must be taken in last academic semester of senior year.

MAN 4731 Modern Business History (MA) (3). An examination of the history of the corporation in the United States since the Civil War, up to, and including, the development of the multinational corporation. An examination of the social and economic forces operative in the development of the corporate form. A full exploration of the current power of the corporate form, and legal and other, efforts to limit this power. Prerequisite: MAN 3701 or consent of the Instructor.

MAN 4741 Managing Change in Organizations (MA) (3). Emphasizes organizational challenges associated with internal change and examines the importance of change management strategies for organizational policy formation. Explores the impact of change on employee morale, firm performance, and management response capability. Prerequisite: MAN 3025.

MAN 4742 Environmental Management (MA) (3). A course on the effect of industrialization and technological change on the physical environment. An examination of the current legal, economic, and political consequences of pollution and environmental damage, and the abate-ment of these factors. Prerequisite: MAN 3701 or consent of Instructor.


MAN 4930 Special Topics in Management (MA) (1-6). Intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Faculty sponsor and written permission of Chairperson and Dean required. Grading option.

MAN 4949 Cooperative Education-Management II (MA) (1-3). Continuation of MAN 3949. Prerequisites: MAN 3949 and qualification for Cooperative Education Program; 2.75 GPA; and senior standing. Permission of Department Chairperson required.

MAN 3023 Marketing Management (ME) (3). A descriptive study emphasizing the functions and institutions common to marketing systems. Prerequisite: Junior standing or permission of department.

MAR 4001 Marketing Tools I (ME) (3). This class introduces students to the importance of their professional image, including a winning attitude, effective communication, interviews, appointments, office protocol, etiquette in global arenas, presentation skills, team building, and negotiations, among other topics. This course is required for all marketing majors.

MAR 4002 Marketing Tools II (ME) (3). This course presents students with a thorough grounding in approaches and calculations used in the field of marketing, including product mix/pricing/volume relationships, market share concepts, media math, cross tabs, and retail calculations.

MAR 4025 Marketing of Small Business Enterprises (ME) (3). Designed to develop an understanding of the principles and practices which contribute to the successful marketing operation of a small business enterprise, this course deals with marketing policies, techniques, and applications to aid the entrepreneur in this field. Prerequisite: MAR 3023.

MAR 4071 Current Issues in Marketing I (ME) (3). Intensive study of various topic areas in marketing. Course emphasizes student reading and research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing. Prerequisite: MAR 3023.

MAR 4072 Current Issues in Marketing II (ME) (3). Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 4071.

MAR 4144 Export Marketing (ME) (3). The course emphasizes practical approaches to export marketing, including marketing strategies by individual firms to serve foreign markets. Operational methods of identifying, establishing, and consolidating export markets are discussed, with particular attention to the needs of the smaller business. Prerequisite: MAR 3023.

MAR 4156 International Marketing (ME, MA) (3). The course studies the information required by marketing managers to assist in satisfying the needs of consumers internationally. Special emphasis will be given to the constraints of the international environment. Prerequisite: MAR 3023.

MAR 4203 Marketing Channels (ME) (3). The course focuses upon institutions, functions, and flows within channels of distribution; and their integration into channels systems. Wholesaling and physical activity are emphasized. Prerequisite: MAR 3023.

MAR 4231 Retail Marketing (ME) (3). An examination of the role of retailing in the marketing system. Attention is concentrated on fundamentals for successful retail management. The course emphasizes basic
marketing principles and procedures, including merchandising; markup-markdown; pricing; stock-turn; and sales and stock planning. Prerequisite: MAR 3023.

MAR 4232 Current Issues in Retail Marketing (ME) (3). An intensive look at topics of current importance in retailing, from planning, buying and store management perspectives. Course emphasizes interaction with business executives and a practical learning approach. Prerequisite: MAR 4231.

MAR 4323 Intergrated Marketing Communication (ME) (3). A broad introduction to the field of integrated marketing communications and how it fits into the marketing plan. Discussion of objective setting, budgeting, and media planning, as well as the strategic planning and evaluation of advertising media, sales promotion, public relations, direct marketing, personal selling and marketing communications on the internet. Prerequisite: MAR 3023.

MAR 4333 Promotional Strategy (ME) (3). The course deals with problems of decision-making in the areas of marketing communication methods, with primary emphasis on advertising. Prerequisite: MAR 3023.

MAR 4334 Advertising Campaign Management (ME) (3). Strategic approaches to managing advertising campaigns, including selection of approaches; market research; consumer target markets; media; advertisements; development and control of budgets. Prerequisite: MAR 4323 or consent of Instructor.

MAR 4400 Personal Selling (ME) (3). The development of effective salesmen/customer relationships is emphasized. Selection, training, and motivation of the sales force, and the relationship between personal selling and the other elements of marketing strategy are analyzed. Prerequisite: MAR 3023.

MAR 4403 Sales Management (ME) (3). Analysis of field sales management with emphasis on the role of personal selling in the marketing mix, building an effective organization, and controlling and evaluating the sales force. Prerequisite: MAR 3023.

MAR 4503 Consumer Behavior (ME) (3). The course offers an introduction to the analysis of the consumer, as the basis for the development of the marketing mix. Prerequisite: MAR 3023.

MAR 4613 Managing Marketing Information (ME) (3). An examination of the marketing research process and its role in aiding decision-making. Emphasis is placed on evaluation and utilization of research information in making marketing decisions. Prerequisite: MAR 3023, QMB 3150 or permission of the instructor.

MAR 4676 Cyber Marketing (ME) (3). This course focuses on the integration of interactive technologies into the design and implementation of contemporary marketing programs. Emphasis on market identification through customer analysis, pricing, etc. through capabilities of marketing information technology. Prerequisite: MAR 3023 and MAR 4503.

MAR 4722 e-Marketing (ME) (3). This introductory course in electronic marketing explores how the Internet has revolutionized the buying and selling of goods and services in the marketplace. Topics covered include b2b and b2c electronic commerce, Internet user characteristics, net product, pricing, and distribution, relationship marketing through online strategies, and the legal and ethical challenges of e-marketing. This course emphasizes hands-on learning.

MAR 4803 Cases in Marketing Management (ME) (3). An analytic approach to the performance to marketing management. The elements of marketing mix as the focus of decision-making in marketing are studied, and the case method of instruction is employed. Prerequisites: MAR 4503, MAR 4613.

MAR 4853 Marketing Strategy (ME) (3). An analysis of marketing strategy, including situation analysis, target strategy, positioning strategy, and planning. Course emphasizes the use of cases. Prerequisite: MAR 4503, MAR 4613.

MAR 4907 Independent Study in Marketing (ME) (1-6). Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor, Department Chairperson and Dean required.

MAR 4933 Special Topics in Marketing (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

MAR 4941 Marketing Internship (ME) (1-6). Full-time supervised work in a selected organization. Prerequisites: At least 12 hours in marketing; consent of instructor and Department Chairperson.

MAR 4949 Cooperative Education in Marketing (ME) (3). Open to marketing majors who have been admitted to the Cooperative Education Program, with consent of Chairperson. Full-time supervised work with a participating organization in marketing. Report to the organization and a paper to the Chairperson are required.

QMB 3003 Quantitative Foundations of Business Administration (DS) (3). Elements and extensive applications of the following quantitative tools to Accounting, Finance, Economics, Marketing, Management and Production: Algebra, review, sets, combinatorics, matrices, linear and nonlinear functions, derivatives and integrals with a view towards optimization. Case studies. Open only to Business Administration majors. Prerequisite: College Algebra.

QMB 3200 Application of Quantitative Methods in Business (DS) (3). Inference and modeling for business decisions under uncertainty. Topics covered include survey sampling, confidence intervals and hypothesis testing for one sample, variance(s), and proportion(s), chi-square test for independence and goodness of fit, correlation, linear regression, time series, and analysis of variance. Use of computer packages to solve real business problems. Prerequisites: STA 2023 or its equivalent and CGS 3300, or ACG 4401, and College Algebra.

QMB 4680 Simulation of Management Systems (DS) (3). Exploration of basic concepts in computer simulation of systems. Application of these concepts to a variety of managerial problems. Discussion of queueing models, continuous simulation models; heuristic methods; and management games. Presentation of several computer programs and languages for simulation. Exposure to the operation and analysis of some simulation models. Prerequisites: CGS 3300.

QMB 4700 Principles of Operations Research I (DS) (3). Application of
deterministic operations research models (such as linear and non-linear programming, networks, dynamic programming, and branch and bound techniques) to managerial problems of allocation, planning, and scheduling.

QMB 4905 Independent Study in Decision Sciences (DS) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of instructor, Department Chairperson and Dean required. P/F only.

QMB 4930 Special Topics in Decision Sciences (DS) (1-6). For students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of instructor and Department Chairperson required. Grading option.

REE 4043 Real Estate Analysis (FI) (3). Decision making processes for development, financing, marketing, and management of real estate within the framework of our governmental, economic, legal, and social systems; does not meet course content requirements of Florida real estate Commission for obtaining a real estate license.

REE 4103 Appraisal of Real Estate (FI) (3). Valuation and appraisal framework applied to residential and income producing property; role of computers; valuation theory and process as a guide to business decisions.

REE 4204 Real Estate Financial Analysis (FI) (3). Financial analysis and structuring of real estate projects; traditional and creative concepts and mechanisms for construction and permanent financing; portfolio problems; governmental programs; money and mortgage market analysis; computers and financial models. Prerequisites: REE 4043 and FIN 3403, or permission of the instructor.

REE 4303 Real Estate Investment (FI) (3). Advanced concepts of acquisition, ownership, and disposition of investment property; taxation and tax shelter; cash flow projection; analysis of specific types of investment property; utilization of computers as a decision-making tool; models of real estate investment analysis; case analysis and policy formulation.

REE 4504 Real Estate Management (FI) (3). Theories and techniques of professional management of real estate including such topics as creating a management plan; merchandising space; economics of alternates; market analysis; the maintenance process; owner-tenant manager relations; operating budgets; tax consideration; and ethics. (on demand)

REE 4743 Real Estate Land Planning (FI) (3). Theories of city growth and structure, operations of the real estate market in land allocation; current practices in real estate land planning. (on demand)

REE 4754 Real Estate and Regional Development Policy (FI) (3). A capstone course in integrating all the aspects of real estate and regional development learned in previous courses, projects, cases, and field trips. Prerequisite: Permission of the instructor. (on demand)

REE 4814 Real Estate Marketing (FI) (3). Techniques of selecting, training, and compensating sales personnel; obtaining and controlling listings; process and methods involved in the selling of real estate; promotion activities; including advertising and public relations; growth problems; professionalism; and ethics. (on demand)

REE 4905 Independent Study in Real Estate (FI) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor, Department Chairperson, and Dean required.

REE 4930 Special Topics in Real Estate (FI) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty tutor and Department Chairperson required.

STA 2023 Statistics for Business and Economics (MS) (3). The use of statistical tools in management; introduction of probability, descriptive statistics, and statistical inference as included.

TAX 4001 Income Tax Accounting (AC) (3). A survey of federal income taxation with emphasis on taxation of individuals and corporations, and the ethics of income tax accounting. Prerequisite: ACG 3301 with grade of 'C' or higher and junior standing.

TAX 4011 Taxation of Corporations and Partnerships (AC) (3). An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisite: TAX 4001 or equivalent with a grade of 'C' or higher.

TAX 4901 Independent Study in Taxation (AC) (1-3). Individual conferences, supervised readings, and reports on personal investigations. Prerequisite: Permission of the Director of the School of Accounting.

TAX 4931 Special Topics in Taxation (AC) (1-3). For groups of students wishing an intensive study of a particular topic(s) not otherwise offered in the curriculum. Prerequisite: Permission of the Director of the School of Accounting.

TRA 4012 Principles of Transportation (ME) (3). Overview of transportation systems. Topics include: a survey of transportation modes (including rail, motor, water, air, and pipelines), management issues (market entry, pricing, competitive responses, service levels, capital structure, traffic management) and global perspectives.

TRA 4202 Logistics Technology (ME) (3). The use of information technology in logistics: EDI, data bases, Internet, decision support systems for logistics, and commercial logistics software. The application of quantitative models in logistics.

TRA 4203 Principles of Logistics (ME) (3). Overview of the logistics function within a firm and in the context of integrated vertical systems. Topics include: customer service, information flow, inventory control, materials management, order processing, packaging, physical distribution, purchasing, transportation, warehousing, and supply chain management.

TRA 4214 Logistics Strategy (ME) (3). Study of logistics policy and strategy, computer simulation of logistics systems under various market conditions, and integration of the logistics function with marketing, production, and finance functions. Case and simulation exercises to illustrate logistics.

TRA 4411 Airport Management (ME) (3). Application of management principles to airport operation, with emphasis on unique characteristics of airport finance; government regulations and regulations; airline relations and interdependence.

TRA 4721 Global Logistics (ME) (3). Logistics activities of multinational
firms, international transportation systems, global sourcing, customer service, faculty location, inventory management, customs issues, export-import activities and the role of governments.

TRA 4936 Special Topics in Transportation (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.
College of Business
Administration

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Dean, Alvah H. Chapman, Jr., Graduate School of Business
Jose de la Torre

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Associate Dean, Academic Affairs and Undergraduate Programs
Clifford Perry

Assistant Dean, Undergraduate Advising
Lynda Raheem

Assistant Dean, Marketing, Communication and Publications
Sally M. Gallion

Director, School of Accounting
Dana Forgione

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Dandapani, Krishnan, Ph.D. (Pennsylvania State University), Professor, Finance

Daniels, Vincent, M.B.A. (Thunderbird University), Director, International MBA Program

Davidson, Lewis F., Ph.D. (Pennsylvania State University), Professor, Accounting

de la Torre, Jose, D.B.A. (Harvard University), Byron Harless Eminent Scholar in Management Development, Management and International Business, and Dean, Alvah H. Chapman, Jr., Graduate School of Business

Dessler, Gary, Ph.D. (City University of New York), Professor, Management and International Business

Dickson, Peter R., Ph.D. (University of Florida), Professor and Knight Ridder Eminent Scholar, Marketing

Dieguez, Manuel, M.S.M. (Florida International University), CPA, Instructor and Associate Director, Accounting

Dorsett, Herman W., Ed.D. (Columbia University), Associate Professor, Management and International Business

Drakatos, Stylianos, M.S. (Ohio State University), Visiting Lecturer, Decision Sciences and Information Systems

Dugan, Timothy, M.B.A. (Baruch College, C.U.N.Y.), Visiting Instructor, Marketing

Elam, Joyce J., Ph.D. (University of Texas-Austin), Professor, Decision Sciences and Information Systems

James L. Knight Eminent Scholar, and Executive Dean

Ellis, S. Christopher, M.B.A. (Florida International University), Instructor, Decision Sciences and Information Systems

Fair, Donald W., M.Acc. (Bowling Green State University), CPA, Instructor, Accounting, and Associate Dean

Farrow, Dana, Ph.D. (University of Rochester), Professor, Management and International Business

Forgione, Dana F., Ph.D. (University of Maryland), Professor and Director, School of Accounting

Friday, Earnest, Ph.D. (University of Miami), Assistant Professor, Management and International Business

Gallion, Sally M., Ph.D. (University of Missouri), Assistant Dean, Marketing

Garcia, Georgina, M.S.M. (Florida International University), CPA, Instructor, Accounting

Gelman, Wendy, J.D. (University of Miami), Instructor, School of Accounting

Gilbert, G. Ronald, Ph.D. (University of Southern California), Associate Professor, Management and International Business

Gomez, Carolina, Ph.D. (University of North Carolina), Assistant Professor, Management and International Business

Goodrich, Jonathan N., Ph.D. (State University of New York at Buffalo), Professor, Marketing

Gray, Delano M.S., (New York University), Instructor, Accounting

Greenberg, Barnett A., D.B.A. (University of Colorado), Professor, Marketing

Gupta, Sushil K., Ph.D. (University of Delhi), Professor, Decision Sciences and Information Systems

Hallauer, Rosalie C., Ph.D. (University of Florida), CPA, CMA, Associate Professor, Accounting

Hamid, Shahid, Ph.D. (University of Maryland), Associate Professor, Finance and Director, M.S.F. Program

Henry, Kenneth, M. Acc. (Florida International University), Visiting Lecturer, Accounting

Hogner, Robert H., Ph.D. (University of Pittsburgh), Associate Professor, Management and International Business

Kaleem, Faisal, M.S. (Florida International University), Instructor, Decision Sciences and Information Systems
Maidique, Modesto A., Ph.D. (Massachusetts Institute of Technology), Professor, Management and International Business, and University President

Manakovic, Tomislav, Ph.D. (University of Pittsburgh), Professor, Decision Sciences and Information Systems

Manheimer, Peter, J.D. (University of Miami), Lecturer, Accounting

Martin, J. Randall, M.A. (University of Miami), Lecturer, Management and International Business

McCosh, Andrew, D.B.A. (Harvard University), Chapman Eminent Scholar in Management and Ethics, Management and International Business

Minniard, Paul, Ph.D. (University of Florida), BMF Professor of Marketing, Director of Ph.D. Program, Marketing

Mintchev, Ligia M.S. (European University), Instructor, Decision Sciences and Information Systems

Moncarz, Raul, Ph.D. (Florida State University), Professor, Finance and Vice Provost, Academic Affairs

Moss, Sherry, Ph.D. (Florida State University), Associate Professor, Management and International Business and Faculty Coordinator, Executive M.B.A. Program

Most, Kenneth S., Ph.D. (University of Florida), CPA, F.C.A., Professor Emeritus, Accounting

 Munro, Michael S., M.B.A. (Stanford University), Visiting Instructor, Marketing

Murphy, Kenneth E., Ph.D. (Carnegie Mellon University), Assistant Professor, Decision Sciences and Information Systems

Newman, Charles, Ph.D. (Pace University), Coordinator, E-Business Initiatives

Nicholls, J.A.F., D.B.A. (Indiana University), Professor and Chair, Marketing

Noguera, Jose, Ph.D. (Louisiana State University), Assistant Professor, Decision Sciences and Information Systems

Oliva, Robert R., Ph.D. (Florida International University) CPA, Professor, Accounting

Oliveira, Manoel, Ph.D. (Florida International University), Instructor, and Director of Technology, Decision Sciences and Information Systems

Ortiz, Marta, Ph.D. (University of Miami), Associate Professor, Marketing

Parhizgari, Ali, M. Ph.D. (University of Maryland), Professor, Finance

Paul, Karen, Ph.D. (Emory University), Professor, Management and International Business

Perry, Clifford, Ph.D. (Purdue University), Distinguished Executive Professor, Research Fellow, Knight-Ridder Center Management and International Business and Associate Dean

Polster, Eleanor, M.B.A. (Florida International University), Instructor and Graduate Advisor, Management and International Business

Prakash, Arun, Ph.D. (University of Oregon), Professor, Finance

Raheem, Lynda, M.B.A. (University of Miami), Instructor, Marketing, and Assistant Dean

Rodriguez, Leonardo, D.B.A. (Florida State University), Professor, Accounting, and Management and International Business

Roomes, Donald, M.B.A. (Florida International University), Instructor, Management and International Business and Director, Weekend BBA

Root, H. Paul, Ph.D. (Purdue University), James K. Batten Eminent Scholar and Director, Knight Ridder Center for Excellence in Management, Marketing

Rose-Green, Ena, Ph.D. (Florida State University), CPA, Visiting Assistant Professor, Accounting

Roslow, Sydney, Ph.D. (New York University), Professor Emeritus, Marketing

Roussakis, Emmanuel, Ph.D. (Catholic University of Louvain, Belgium), FIBA Professor of Finance, Director of Certificate Programs in Banking, and Chair, Finance

Sanchez, Juan, Ph.D. (University of South Florida), Associate Professor, Management and International Business

Seaton, Bruce, Ph.D. (Washington University), Associate Professor

Shepherd, Phillip, Ph.D. (Vanderbilt University), Associate Professor, Management and International Business

Silverblatt, Ronnie, Ph.D. (Georgia State University), Associate Professor, Management and International Business

Sirpal, Rajeshwar, Ph.D. (University of Florida), Visiting Instructor,
Finance

Smith, Larry A., Ph.D. (State University of New York at Buffalo), Associate Professor, Decision Sciences and Information Systems

Surysekar, Krishnamurphy, Ph.D. (University of Maryland), Assistant Professor, Accounting

Sutija, George, M.B.A. (Columbia University), Associate Professor, Management and International Business

Taylor, Kimberly, Ph.D. (University of Pennsylvania), Associate Professor, Marketing

Truex, Duane, Ph.D. (State University of New York-Binghamton), Assistant Professor, Decision Sciences and Information Systems

Tsalkis, John, Ph.D. (University of Mississippi), Associate Professor, Marketing

Vidaver-Cohen, Deborah V., Ph.D. (Columbia University), Associate Professor, Management and International Business

Von Glinow, Mary Ann, Ph.D. (The Ohio State University), Professor, Management and International Business and Director, CIBER

Wang, Tei-Wei, M.S. (University of Missouri), Assistant Professor, Decision Sciences and Information Systems

Wass, Lauren, B.S. (Florida International University), Counselor and Advisor

Welch, William W., Ph.D. (University of Michigan), Associate Professor, Finance

Wheatley, Clark, Ph.D. (Virginia Polytechnic Institute), CPA, Associate Professor, Accounting

Wishart, Nicole, M.B.A. (University of Miami), Instructor, Decision Sciences and Information Systems

Wrieden, John A., J.D. (George Mason University), Distinguished Senior Lecturer, Accounting

Zanakis, Steve H., Ph.D. (Pennsylvania State University), Professor, Decision Sciences and Information Systems

Zdanowicz, John S., Ph.D. (Michigan State University), Professor and Director, Jerome Bain Real Estate Institute, Finance

Zegan, Peter J., M.S. (University of Florida), Instructor, Decision Sciences and Information Systems
College of Education
The College of Education exists in an urban, multicultural setting and has a three-part mission. The first is to prepare professionals who have the abilities and dispositions to facilitate and enhance learning and development within diverse settings. The second is the discovery and dissemination of knowledge related to learning, teaching, and development. The third is the development of professional partnerships to promote meaningful educational, social, economic and political change. Our mission supports:

- Curricula that reflect sound theory and best practice.
- Qualified and diverse students and graduates.
- Qualified and diverse faculty active in teaching, research and service.
- Effective governance and organizational structure within an environment of open communication among faculty, administrators, staff, students and community.
- Collaborative and mutually beneficial partnerships with schools and other organizations.
- Visibility at local, state, national and international levels.
- Continuous improvement of the College.

The College offers instructional programs at the undergraduate and graduate levels, engages in research and program development activities, and provides field services to the educational community. The conceptual framework guiding the faculty, curricula and programs in the College is grounded in four core concepts that are central to the vision faculty have of professional educators. The College's programs are intercultural, interconnectedness, inquiry, and instructional leadership.

The College, housed in the Sanford and Dolores Ziff Education Building (ZEB) at Florida International University—University Park, is fully accredited by the National Council for the Accreditation of Teacher Education, the Florida Department of Education, and the State University System.

To support its mission, the College is organized into six departments:

- Educational Leadership
- Policy Studies
- Educational and Psychological Services
- Health, Physical Education and Recreation
- Curriculum and Instruction

Bachelor of Science degree programs are offered in the following specialities:

- Art Education
- Biology Education
- Chemistry Education
- Early Childhood Education with ESOL endorsement
- Elementary Education with ESOL Endorsement
- Emotional Disturbance with ESOL Endorsement
- Varying Exceptionalities Track
- English Education 6-12/ESOL Endorsement
- Exercise and Sport Science
- Health Occupations Education
- Home Economics Education
- Mathematics Education
- Mental Retardation with ESOL Endorsement
- Modern Language Education: French
- Modern Language Education: Spanish
- Music Education (see College of Arts and Sciences, School of Music)
- Parks and Recreation Management
- Leisure Service Management
- Parks Management
- Recreational Therapy
- Physical Education
- Physical Education: Grades K-8
- Physical Education: Grades 6-12
- Sports Management Track
- Physics Education
- Specific Learning Disabilities with ESOL Endorsement
- Social Studies Education
- Vocational Industrial Education

Applicants to the College of Education programs should carefully examine the choices of major concentrations and program objectives. Because there are occasional revisions of College of Education curriculum during the academic year, some curriculum changes may not be reflected in the current catalog. Prospective students are advised to contact appropriate advisors to ask for current information regarding specific programs of interest.

General advisement is available by telephone: (305) 348-2768 for University Park, (305) 919-5820 for Biscayne Bay Campus. Broward residents may call (954) 355-5622 for Biscayne Bay Campus or for the Broward Program. Additional information is available on the FIU website at www.fiu.edu. Specific program advisement is available by rearranged personal appointment with advisors at all locations.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the State University System and the Florida Legislature. Changes may be made without advanced notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Bachelor of Science Programs

Undergraduate students will complete at least 60 semester hours of upper-division credits, including a residency requirement of 30 semester hours prior to graduation at the University. Before formal admission to the University, a student may be approved to take 15 credits as a non-degree seeking student which, if applicable to the major field of study and approved by an advisor, may be applied to the degree program.

Undergraduate Admission Requirements

College of Education program standards are intended to assure that students have breadth and depth of background needed for successful upper-division work in education. Students are required to have a minimum overall GPA of 2.5 for all lower division/transfer course work to be admitted to the College. In addition, students are required to successfully complete all four subsections of the CLAST, without alternatives prior to transferring to the College.

Students transferring from out-of-state or private institutions who have not met the CLAST requirement will be allowed one semester in which to successfully pass all four subsections.

Lower Division Requirements

Initial Teacher Preparation Programs

An Associate in Arts Degree or equivalent preparation in basic general
education is required. If a student has not completed equivalents of the courses noted below, these courses must be completed with a grade of 'C' or higher prior to enrollment in courses at the University for which there are prerequisites.

For students entering their freshmen year of college in or after the 2001-2002 academic year, the following General Education requirements (45 hours) will apply:

- Nine (9) semester hours in English to include writing, literature, and speech;
- Nine (9) semester hours in Science to include earth science, life science, and physical science, with a minimum of one associated laboratory;
- Nine (9) semester hours in Mathematics to include college algebra or above and geometry;
- Twelve (12) semester hours in Social Sciences to include American history and general psychology;
- Six (6) semester hours in humanities to include philosophy and fine arts.

**Lower-Division Common Education Prerequisites**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDF 1005</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 2701</td>
<td>Teaching Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>EME 2040</td>
<td>Introduction to Educational Technology, or</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>acceptable substitute</td>
<td></td>
</tr>
</tbody>
</table>

1 Requires field experience of 15 clock hours outside of class time.

In addition to EDG 2701, students must take six credit hours with an international or diversity focus in lower division. See individual programs for specific major prerequisite courses.

**Professional Studies Core (9)**

Every teacher education student must enroll in the following courses:

- EDF 4634 Cultural and Social Foundations of Education 3
- EDG 3321 General Instructional Decision Making 3
- EDP 3004 Educational Psychology 3

* Subsequent special teaching laboratories and courses build on these core courses to extend and refine knowledge skills, and dispositions. All teacher education programs include one semester of student teaching in a public or approved non-public school. Student teaching requires the student to spend the entire school day of a complete semester on site. A student is not allowed to be employed while student teaching.

Upon the successful completion of all program requirements, the Bachelor of Science degree is awarded. The student is eligible to apply for a State of Florida Teaching Certificate in the field of specialization if the student has completed a College of Education State-approved program with a required 2.5 GPA. Other graduation requirements for students admitted to the College on or after fall, 2001 include successful demonstration of the Florida Educator Accomplished Practices and passing scores on all three sections of the Florida Teacher Certification Exam.

**Undergraduate Grading Policies**

Undergraduate students must have a minimum overall grade point average (GPA) of 2.5 in order to graduate. A grade of 'C-' or less is not acceptable toward graduation in any required program of study course in the College of Education, any college/program prerequisite or any Gordon writing/math requirements meeting General Education or lower division core requirements. Furthermore, students will not be approved for student teaching with a grade of 'C-' in any required program of study course or with less than a minimum GPA of 2.5 in their field of specialization. Specific undergraduate programs may have higher grading criteria. Students applying for State of Florida Teacher Certification must present a GPA of 2.5 or higher in their teaching major.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she understands and has met the requirements.

**Certification Only Students**

Students choosing to pursue course work leading toward State of Florida Teacher Certification (rather than a second degree) are considered Non-Degree Seeking Students and must abide by all policies and limitations set forth for non-degree seeking students. Students should seek admission to degree programs at the undergraduate or masters level to facilitate enrollment in program courses. State of Florida certification requirements are considered to be minimum requirements. It may be necessary to register for additional prerequisite courses to enroll in a desired course. Students who register for a course but have not completed the prerequisite course(s) will be administratively dropped from the class.

**Alternate Masters Degree Programs**

Students who hold a bachelors degree in a field other than education and wish to teach may want to consider pursuing an Alternate Masters Degree Program. Admission to these degree programs include passing all sections of the CLAST. After July 1, 2002, this requirement may be waived for students with a BS degree and a score of 1000 on the GRE. New graduation requirements for these Alternate Master's Programs include the following:

- Overall GPA of 3.0
- Passing scores on all three sections of the new Florida Teacher Certification Exam.
- Successful demonstration of all Florida Educator Accomplished Practices.

**Note:** If a student receives passing scores on the CLAST prior to July 1, 2002, they do not have to pass the new General Knowledge test. See specific program information and faculty advisor for additional information.

Approval pending for a change in degree name to Master in the Art of Teaching (MAT). See advisor for current status.

**Fingerprint Requirement**

State of Florida Teacher Certification, in addition to other criteria, requires all applicants to be fingerprinted and checked by the FBI. Some school districts also require a fingerprint check and drug testing for student interns and/or student teachers. Students with a history of felony arrests may wish to consider this carefully and seek advice from an advisor before applying to programs in the College.
Curriculum and Instruction

Mohammed K. Farouk, Associate Professor, Social Studies/Global Education, Director, Global Awareness Program and Chairperson
Cengiz Alacaci, Assistant Professor, Mathematics Education
Kingsley Banya, Professor, Curriculum Studies, International and Comparative Education
Maria A. Bilbao, Assistant Dean
Charles Bleiker, Associate Professor, Early Childhood Education
Richard Campbell, Professor, Science Education
David Y. Chang, Professor, Art Education
Lisbeth Dixon-Krauss, Associate Professor, Literacy Education
Eric Dwyer, Assistant Professor, TESOL and Modern Language Education
Joyce C. Fine, Associate Professor, Literacy Education
Allen Fisher, Associate Professor, Learning Technologies
Gail P. Gregg, Associate Professor, English Education
Zhonghong Jiang, Associate Professor, Mathematics Education and Computer Education
Sharon W. Kossack, Professor, Literacy Education
Scott P. Lewis, Assistant Professor, Science Education
Nancy Marshall, Associate Professor, Literacy Education
Luis A. Martinez-Perez, Associate Professor, Science Education
Edwin McClintock, Professor, Mathematics Education and Computer Education
Alicia Mendoza, Associate Professor, Elementary Education
Lynne D. Miller, Associate Professor, Literacy Education
George E. O'Brien, Associate Professor, Science Education
Aixa Perez-Prado, Assistant Professor, TESOL
Francisco Ramos, Assistant Professor, TESOL
William M. Ritzi, Instructor, Art Education
Linda Spears-Bunton, Associate Professor, English Education
M. O. Thirunarayanan, Associate Professor, Learning Technologies
S. Lee Woods, Associate Professor, Learning Technologies

Educational Foundations and general Instructional Strategies

General Program Information
The Department of Curriculum and Instruction offers undergraduate programs leading to the Bachelor of Science degree in early childhood, elementary, and a variety of secondary school subject areas of specialization. State of Florida certification requirements are met for all programs preparing early childhood, elementary, secondary (6-12) teachers in Art Education, Modern Language Education and Music Education.

The department is strongly committed to field experiences. The field component of the bachelor’s degree is realized through Field Experience, which is taken concurrently with courses throughout the respective program, and through Student Teaching.
The department is also committed to the generation and application of knowledge through research and service to the community.
The undergraduate programs offered are as follows:

Early Childhood/ESOL Education:
Prekindergarten/Primary Education: Age 3 to Grade 3 with ESOL Endorsement
Elementary/ESOL Education: Grades 1-6 with ESOL Endorsement

General: Grades K - 12
Art Education
French Education
Spanish Education
Music Education (see College of Arts & Sciences, School of Music)

Secondary Education: Grades 6-12
Biology Education
Chemistry Education
English Education/ESOL
Mathematics Education
Physics Education
Social Studies Education

Upon admission to the University and to the College, each student major in the department is assigned an advisor in the teaching field who will assist the student in constructing a program of study. The program of study must comply with the goals of the student. Upon successful completion of the work specified in the program of study, the student is awarded the Bachelor of Science Degree with a major in a specified subject matter area or level of schooling (e.g., Early Childhood Education (Age 3 through Grade 3 with ESOL Endorsement), Elementary Education (1-6 and ESOL Endorsement), Art (K-12), English (6-12 with ESOL Endorsement), Mathematics, Music (K-12), and is eligible for regular teacher certification in the State of Florida upon successful completion of the requirements specified by the Florida Department of Education.

Lower Division Requirements: Initial Teacher Preparation Programs

An Associate in Arts Degree or equivalent preparation in basic general education is required. If a student has not completed equivalents of the courses noted below, these courses must be completed with a grade of 'C' or higher prior to enrollment in courses at the University for which there are prerequisites.

For students entering their freshmen year of college in or after the 2001-2002 academic year, the following General Education requirements (45 hours) will apply:

- Nine (9) semester hours in English, to include writing, literature, and speech;
- Nine (9) semester hours in Science to include earth science, life science, and physics science, with a minimum of one associated laboratory;
- Nine (9) semester hours in Mathematics to include college algebra or above and geometry;
- Twelve (12) semester hours in Social Sciences to include American history and general psychology;
- Six (6) semester hours in humanities, to include philosophy and fine arts.

Lower-Division Common Education Prerequisites
EDF 1005 Introduction to Education
EDG 2701 Teaching Diverse Populations
EME 2040 Introduction to Educational Technology, or acceptable substitute

1 Requires field experience of 15 clock hours outside of class time.
In addition to EDG 2701, students must take six credit hours with an international or diversity focus in lower division. See individual programs for specific major prerequisite courses.

Admission Requirements:
Undergraduate Initial Teacher Preparation Programs
To qualify for admission to the programs, undergraduate candidates must have met all the lower division requirements including: 60 credit hours of lower-division courses, all general education requirements, lower-division GPA of 2.5 or higher, and passing scores on all four parts of the CLAST Exam.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

Field Experiences
Most courses offered by the department require observation and participation in selected schools. The course descriptions identify the courses which require in-school classroom experiences guided by the directing classroom teacher and a College of Education faculty member.

The student teaching assignments are fulfilled in designated field centers. This experience is on a full-time basis for one semester. Permission to student-teach is contingent upon successful completion of all other requirements specified in the program of study. Students may be assigned to do their student teaching during either the Fall or Spring semesters of their senior year. There is no student teaching during the Summer semester.

Application for student teaching is the responsibility of the student. Necessary forms may be obtained from the office of the Director of Student Teaching. Deadline dates are July 1 for Spring student teaching and March 1 for Fall placement.

All stated admission requirements are to be considered minimums. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

Graduation Requirements
In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.
1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

All admission and graduation information described above pertains to students entering all of the initial teacher preparation programs that follow:

Bachelor of Science in Early Childhood Education:
(Prekindergarten/Primary Education: Age 3 through Grade 3 & ESOL Endorsement)

Degree Track Hours: 126
Lower Division (60)
See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

In addition to EDG 2701, students must take six credit hours with an international or diversity focus in lower division. See individual programs for specific major prerequisite courses.

Upper Division Program
Minimal acceptable grade is a “C”

Block II:
Psychological/Developmental Issues

Block III: Pedagogical Issues
EDP 3218 Classroom Management
HLP 3013 Teaching Elem Health, PE & Music* (ECE)
SSE 4xxx Integrating Social Studies in ECE Cun* (ECE)
TSL 4141 ESOL Issues: Principles & Practices II*
EEX 3221 Assessment of Exceptional Students* (ECE)

Block IV: Social/Cultural Issues
EEC 4204 Early Childhood Curriculum*
EDF 4634 Cultural/Social Fdns of 1 d
SSE 4xxx Integrated Social Studies in ECE Cuni*
EEX 3221 Assessment of Exceptional Students* (ECE)
RED 4xxx Children’s Literature* (ECE)

Block V: Putting Issues into Practice
EEC 4943 Student Teaching Internship***
EDE 4936 Senior Seminar***

*Student Teacher Applications must be submitted in Block III. Student Teaching is offered in the Fall & Spring Semesters ONLY.

All courses in a block should be completed before any courses in the next block.

Part-time students must enroll in EEC 4941 every semester in which an early childhood elementary education course is taken.

Programatic Professional Development Experience in Science Education are required in blocks II, III, IV, & V.

EDG 3321 is a corequisite.

Graduation Requirements
In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.
1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.
Bachelor of Science in Elementary Education
(Grades 1-6 & ESOL Endorsement)

Degree Program Hours: 129

Lower Division (60)

See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

In addition to EDG 2701, students must take six credit hours with an international or diversity focus in lower division. See individual programs for specific major prerequisite courses.

Upper Division Program: (69)

Minimum acceptable grade is "C"

Block I Understanding the Nature of Elementary Education (15)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<td>EDP 3004</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDG 3321</td>
<td>General Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDE 3xxx</td>
<td>Issues in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>LAE 3xxx</td>
<td>Language &amp; Literacy Development*</td>
<td>3</td>
</tr>
<tr>
<td>EEX 3012</td>
<td>Education Foundations for Exceptionalities</td>
<td>3</td>
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<tr>
<td>EDE 4940</td>
<td>Field Experience, Block I*</td>
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</tr>
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</table>

Block II Focus on the Young Child (15)

Students must be fully admitted to the Elementary Education program before registering for any Block II courses.

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EDP 3218</td>
<td>Classroom Management 3</td>
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<tr>
<td>RED 4150</td>
<td>Teaching Beginning Literacy*</td>
<td>3</td>
</tr>
<tr>
<td>TSL 3370</td>
<td>ESOL Issues: Princples &amp; Practices I*</td>
<td>3</td>
</tr>
<tr>
<td>SCE 4310</td>
<td>Teaching Elementary Science****</td>
<td>3</td>
</tr>
<tr>
<td>ARE 3313</td>
<td>Teaching Elementary Art*</td>
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<tr>
<td>EDE 4941</td>
<td>Field Experience, Block II*</td>
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Block III Focus on Older Children (12)

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<tbody>
<tr>
<td>EDF 3430</td>
<td>Measurement and Evaluation in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>RED 4311</td>
<td>Teaching Intermediate Reading*</td>
<td>3</td>
</tr>
<tr>
<td>HLP 3013</td>
<td>Teaching Elementary Health &amp; P.E. *</td>
<td>3</td>
</tr>
<tr>
<td>MAE 4310</td>
<td>Teaching Elementary Math*</td>
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<tr>
<td>EDE 4940</td>
<td>Field Experience, Block III*</td>
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Block IV Social/Cultural Issues (15)

<table>
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<tr>
<td>EDF 4634</td>
<td>Cultural/Social Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>TSL 4141</td>
<td>ESOL Issues: Principles &amp; Practices II*</td>
<td>3</td>
</tr>
<tr>
<td>MUE 3210</td>
<td>Teaching Elementary Music*</td>
<td>3</td>
</tr>
<tr>
<td>SSE 4312</td>
<td>Teaching Elementary Social Studies*</td>
<td>3</td>
</tr>
<tr>
<td>EDE 4941</td>
<td>Field Experience, Block IV*</td>
<td>0</td>
</tr>
</tbody>
</table>

Block V Putting Issues into Practice

Students must apply for student teaching two semesters before planning to do Block V.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDE 4936</td>
<td>Senior Seminar in Elementary Education***</td>
<td>3</td>
</tr>
<tr>
<td>EDE 4943</td>
<td>Student Teaching Internship***</td>
<td>9</td>
</tr>
</tbody>
</table>

Notes on Upper Division Courses:

All courses in one block must be completed before taking any courses in the next block. If a course is not passed (minimum passing grade is "C"), no courses in the next block may be taken until the failing grade is corrected.

This will help full-time students move through the program in the most efficient way.

It is suggested that part-time students take courses in order listed above.

Part-time students are permitted to merge blocks as long as they are following the sequence of courses in the advising form.

*Every course marked with an asterisk requires EDE 3940, or 3941, or 4940, or 4941, Field Experience, as a corequisite. Two hours per week per course are required.

***EDE 4936 and EDE 4943 must be taken together in the same semester.

****Programatic Professional Development experiences in Science Education as required in blocks III and IV are a required as part of EDE 4940 and EDE 4941.

Graduation Requirements

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Bachelor of Science in Art Education: Grades K-12

Degree Program Hours: 138

Lower Division (60)

See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

Major Common Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ART 1202C</td>
<td>2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1203C</td>
<td>3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 2300C</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2303C</td>
<td>Figure Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2050</td>
<td>Art History Survey I</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2051</td>
<td>Art History Survey II</td>
<td>3</td>
</tr>
<tr>
<td>ART xxxx</td>
<td>Art Studio</td>
<td>6</td>
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Upper Division Program: (60)

Subject Matter Specialization: (30)

<table>
<thead>
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<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>ARH 4470</td>
<td>Contemporary Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 3331C</td>
<td>Figure Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 2500C</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2400C</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ART 2702C</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>PGY 2401C</td>
<td>Photography</td>
<td>3</td>
</tr>
<tr>
<td>Art History Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ART 3760C</td>
<td>Ceramics</td>
<td>3</td>
</tr>
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</table>

Select two of the following three courses:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARE 4848</td>
<td>Concepts in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 4xxx</td>
<td>Study Abroad</td>
<td>3</td>
</tr>
<tr>
<td>ARE 4459</td>
<td>New Media/Crafts</td>
<td>3</td>
</tr>
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Professional Education: (78)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 4634</td>
<td>Cultural and Social Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDP 3004</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDG 3321</td>
<td>General Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDE 4940</td>
<td>Field Experience, Block II*</td>
<td>0</td>
</tr>
<tr>
<td>EEX 3012</td>
<td>Educational Foundations for Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EED 3012</td>
<td>Educational Needs of Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>RED 4325</td>
<td>Content Area</td>
<td>3</td>
</tr>
<tr>
<td>TSL 4324</td>
<td>ESOL Issues and Strategies for Content Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ARE 4316</td>
<td>Special Teaching Lab</td>
<td>3</td>
</tr>
<tr>
<td>ARE 4341</td>
<td>Special Teaching Lab</td>
<td>3</td>
</tr>
</tbody>
</table>
A student must complete 14 semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll for SCE 4330 and SCE 4944 in consecutive semesters and SCE 4330 must be taken before SCE 4944. Applications to student teach are due in the office of the Director of Student Teaching by July 1 for Spring semester placement.

Graduation Requirements
In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs:

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Bachelor of Science in Biology Education: Grades 6–12

Degree Program Hours: 126

Lower Division (60)
See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

Upper Division Program: (60)
Subject Matter Specialization: (30)
Genetics 4
Ecology 4
Physiology/Biochemistry 4
Electives in Biology 18

Professional Education: (36)
EDF 3430 Measurement and Evaluation in the Classroom 3
EDF 3004 Educational Psychology 3
EDG 3321 General Instructional Decision Making 3
EDG 3xxx Secondary Classroom Management 3
EDF 4634 Cultural and Social Foundations of Education 3

Special Methods and Student Teaching
A student must complete 14 semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll for SCE 4330 and SCE 4944 in consecutive semesters and SCE 4330 must be taken before SCE 4944. Applications to student teach are due in the office of the Director of Student Teaching by July 1 for Spring semester placement.

Graduation Requirements
In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs:

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Bachelor of Science in Chemistry Education: Grades 6-12

Degree Program Hours: 126

Lower Division (60)
See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

Upper Division Program: (60)
Subject Matter Specialization: (30)
Organic Chemistry I and II 6
Organic Chemistry Laboratories 3
Quantitative Analysis and Laboratories 5
Physical Chemistry and Laboratory 5
Electives in Chemistry 8
Calculus II 3

Professional Education: (36)
EDF 3430 Measurement and

Bachelor of Science in French Education: Grades K-12

Degree Program Hours: 126

Lower Division (60)

See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

Upper Division Program: (66)

Subject Matter Specialization: (30)

- Phonetics or Contrastive Phonology 3
- Introduction to Linguistics or Linguistics in Target Language 3
- Civilization/Culture 6
- Syntax/Composition 12
- Literature in Target Language 6

Professional Education: (36)

- Measurement and Evaluation in the Classroom 3
- General Instructional Decision Making 3
- Classroom Management 3
- Cultural and Social Foundations of Education 3
- Educational Psychology 3
- Educational Needs of Students with Exceptionalities 3
- Content Area Reading 3
- Principles and Practices I 3
- ESOL Issues: Principles and Practices II 3
- Special Teaching Laboratory English 3
- Student Teaching 9

Special Methods and Student Teaching

A student must complete 14 semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll in LAE 4335 before LAE 4942.

Graduation Requirements

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.
1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Bachelor of Science in Mathematics Education: Grades 6-12

Degree Program Hours

Lower Division (60)

See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

Upper Division Program: (60)

Subject Matter Specialization: (31)

- Thirty semester hours beyond calculus (MAC 2313 or equivalent).
- COP 2210 Programming I 4
- STA 3163 Statistical Methods I 3
- STA 3164 Statistical Methods II 3
- MTG 3212 College Geometry 3
- MAS 3105 Linear Algebra 3
- MTH 3404 History of Math 3
- MAS 4213 Number Theory 3
- Advisor approved electives Mathematics Electives 9

Professional Education: (36)

- Measurement and Evaluation in the Classroom 3
- General Instructional Decision Making 3
- Secondary Classroom Management 3
- Cultural and Social Foundations of Education 3
- Educational Psychology 3
- Educational Needs of Students with Exceptionalities 3
- Content Area Reading 3
- Methods of Teaching Modern Language in the Elementary Schools 3
- Methods of Teaching Modern Language at the Secondary Level 3
- Student Teaching 9

Special Methods and Student Teaching

Students must complete the 15 semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll in FLE 4375, and FLE 4314 before enrolling in FLE 4942.

Graduation Requirements

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.
1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Graduation Requirements

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.
1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.
Practicals - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Bachelor of Science in Music Education: Grades K-12

Degree Program Hours: 134

The Bachelor of Science in Music Education degree is offered by the School of Music, within the College of Arts and Sciences. Changes of the curriculum, including new and revised courses, are done in collaboration with the College of Education to ensure compliance with certification and accreditation requirements. Application for this major must be made to the School of Music before admittance. An audition, theory, and piano placement exams are required prior to admittance.

Any questions concerning this degree should be directed to Dr. Michael Wagner (Program Head) 305-348-2076 or to Fredrick Kaufman, Director of the School of Music 305-348-2896.

Lower Division (60)

See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

Music Education majors must pass the Piano Proficiency; Class Piano III and IV until proficiency is passed.

Upper Division:

Program Content Courses

Music History (12 credits)
MUH 3052 Music of the World 3
MUH 3211 Music History Survey I 3
MUH 3212 Music History Survey II 3
MUH 3371 20th Century Music 3

Applied Music (11 credits)
Music Education majors are required to take 2 credits of Applied Lessons each semester of their freshman and sophomore years, and one credit the seminar not Student Teaching in the senior year.

Ensembles (14 credits)
Music Education majors are required to take 1 major and one minor ensemble each semester. Music Education majors are not required to take ensembles while Student Teaching.

Recital Attendance (0 credits)
To be taken each semester enrolled in Applied Music.

Senior Recital (0 credits)
Music Education majors present their Senior Recital in the senior semester when not Student Teaching.

Music Education majors choose either the Choral or Instrumental Track for Conducting and Techniques and Techniques courses.

Choral Music Education (5 credits)
Conducting 2
MUG 4101 Basic Conducting 1
MUG 4302 Instrumental Conducting 1
Music Education Techniques 3
MVV 1111 Class Voice I* 1
MVV 2121 Intermediate Class Voice 1
MVV 3630 Vocal Pedagogy 1
MVS 1116 Guitar Skills** 1
*Voice principle excluded
**Guitar principals excluded

OR

Instrumental Music Education (5 credits)
Conducting 2
MUG 4101 Basic Conducting 1
MUG 4302 Instrumental Conducting 1
Music Education Techniques 3
MUE 2440C String Tech*** 1
MUE 2450C Woodwind Tech*** 1
MUE 2460C Brass Tech*** 1
MUE 2470C Percussion Tech*** 1
***Students are exempted from their major applied technique course.

Professional Education
EDF 3430 Measurement and Evaluation in the Classroom 3
EDG 3321 Instructional Decision Making 3
EDP 3218 Classroom Management 3
EDP 3004 Educational Psychology 3
EDF 4634 Cultural and Social Foundations in Education 3
RED 4325 Reading in the Content Area 3
TSL 4324 ESOL Issues and Strategies for Content Teachers 3
MUE 3340 Elementary Music Methods 3
MUE 4341 Secondary Music Methods 3
MUE 4940 Student Teaching in Music Education 9

Note: MUE 4940 is taken the semester following MUE 3340 and MUE 4341

Graduation Requirements
In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Bachelor of Science in Social Studies Education:
Grades 6-12

Degree Program Hours: 126

Lower Division (60)

See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

Major Common Prerequisites
American Government 3
Choose four of the six areas for a total of 12 credit hours:
Anthropology 3
Cultural Geography 3
Economics 3
History 3
Psychology 3
Sociology 3
At least one course taken to meet the natural science requirements in General Education and/or prerequisites must include a laboratory component.

Upper Division Program: (60)

Subject Matter Specialization (30)
History 12
Economics 3
Anthropology or Sociology 3
Political Science 3
World Regional Geography 3
Advisor Approved Electives 3

SSE 4380 Developing a Global Perspective 3
Two courses must be in American History (AMH), two in European History (EUH) or World Civilization (WHO), and one in African History (AFH), Asian History, Latin American History (LAH), or Middle Eastern History. This may include courses taken at the lower division as part of the lower division prerequisites.
### Professional Education: (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3430</td>
<td>Measurement and Evaluation in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDF 4634</td>
<td>Cultural and Social Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 3321</td>
<td>General Instructional Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>EDG 3xx</td>
<td>Secondary Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDP 3004</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EEX 3012</td>
<td>Educational Needs of Students with...</td>
<td>3</td>
</tr>
<tr>
<td>RED 4325</td>
<td>Content Area Reading</td>
<td>3</td>
</tr>
<tr>
<td>TSL 4324</td>
<td>ESOL Issues and Strategies for Content...</td>
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</tr>
<tr>
<td>SSE 4384</td>
<td>Special Teaching Laboratory: Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>SSE 4942</td>
<td>Student Teaching</td>
<td>9</td>
</tr>
</tbody>
</table>

### Special Methods and Student Teaching

Students must complete 14 semester hours of foundation courses, and all core courses before enrolling in 4000-level Special Teaching Lab courses. A student must enroll for SSE 4384 and SSE 4942 in consecutive semesters and SSE 4384 must be taken before SSE 4942.

### Graduation Requirements

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

### Bachelor of Science in Spanish Education: Grades K-12

#### Degree Program Hours: 126

#### Lower Division (60)

See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

### Upper Division Program: (66)

#### Subject Matter Specialization: (30)

<table>
<thead>
<tr>
<th>Area</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phonetics or Contrastive</td>
<td>3</td>
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<tr>
<td>Phonology</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>Linguistics in Target Language</td>
<td>6</td>
</tr>
<tr>
<td>Civilization/Culture</td>
<td>6</td>
</tr>
<tr>
<td>Syntax/Composition</td>
<td>12</td>
</tr>
<tr>
<td>Literature in Target Language</td>
<td>6</td>
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### Professional Education: (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3430</td>
<td>Measurement and Evaluation in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDG 3321</td>
<td>General Instructional Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>EDP 3218</td>
<td>Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDF 4634</td>
<td>Cultural and Social Foundations of Education</td>
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<td>EDP 3004</td>
<td>Educational Psychology</td>
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</tr>
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<td>EEX 3012</td>
<td>Educational Needs of Students with...</td>
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<tr>
<td>RED 4325</td>
<td>Content Area Reading</td>
<td>3</td>
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<tr>
<td>FLE 4314</td>
<td>Methods of Teaching Modern Language in the Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>FLE 4375</td>
<td>Methods of Teaching Modern Language at the Secondary Level</td>
<td>3</td>
</tr>
<tr>
<td>FLE 4942</td>
<td>Student Teaching</td>
<td>9</td>
</tr>
</tbody>
</table>

### Special Methods and Student Teaching

Students must complete the 15 semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll in FLE 4375, and FLE 4314 before enrolling in FLE 4942.

### Graduation Requirements

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

### Bachelor of Science in Physics Education: Grades 6-12

#### Degree Program Hours: 126

#### Lower Division (60)

See the section above regarding general information, admission and graduation requirements, and new general education requirements (45 hours).

### Major Prerequisites:

- Physics with Lab: 8
- Chemistry with Lab: 8
- Electives in Science: 6

### Upper Division Program: (60)

#### Subject Matter Specialization: (30)

- Organic Chemistry I and II: 6
- Organic Chemistry Laboratories: 3
- Quantitative Analysis and Laboratories: 5
- Physical Chemistry and Laboratory: 5
- Electives in Chemistry: 8
- Calculus II: 3

### Professional Education: (36)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 3430</td>
<td>Measurement and Evaluation in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDP 3004</td>
<td>Educational Psychology</td>
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<tr>
<td>EDG 3321</td>
<td>General Instructional Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>EDP 3xxx</td>
<td>Secondary Classroom Management</td>
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</tr>
<tr>
<td>EDF 4634</td>
<td>Cultural and Social Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EEX 3012</td>
<td>Educational Needs of Students with...</td>
<td>3</td>
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<tr>
<td>RED 4325</td>
<td>Content Area Reading</td>
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<tr>
<td>TSL 4324</td>
<td>ESOL Issues and Strategies for Content...</td>
<td>3</td>
</tr>
<tr>
<td>SCE 4330</td>
<td>Special Teaching Laboratory: Social Studies</td>
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<td>SCE 4944</td>
<td>Student Teaching</td>
<td>9</td>
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</table>

### Special Methods and Student Teaching

A student must complete 14 semester hours of foundations courses and all core courses before enrolling in 4000-level special methods courses. A student must enroll for SCE 4330 and SCE 4944 in consecutive semesters and SCE 4330 must be taken before SCE 4944.
Graduation Requirements
In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.
1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.
For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Add-on Endorsement in ESOL
Individuals who currently hold or are working toward teacher certification in Elementary, Early Childhood, English 6-12, Foreign Language and Special Education, may receive the Endorsement in ESOL by completing new infused programs in effect, Fall 2002.
Educational Leadership and Policy Studies

Charles Divita, Jr, Chairperson and Professor, Adult Education & Human Resource Development
Carlos M. Alvarez, Associate Professor, International & Intercultural Development Education,
John A. Carpenter, Professor, Educational Foundations, International and Intercultural Development Education
Peter J. Cistone, Professor, Educational Leadership
Richard J. Correnti, Senior Lecturer, Higher Education
Erskine S. Dottin, Professor, Educational Foundations
Greg K. Dubrow, Assistant Professor, Higher Education
Miguel Angel A. Escotet, Professor, Educational Foundations, International & Intercultural Development Education
Stephen M. Fain, Professor, Curriculum and Instruction: Instructional Leadership
Robert V. Farrell, Associate Professor, Social Foundations, International Development Education
Jo D. Gallagher, Associate Professor, Adult Education and Human Resource Development
Paul D. Gallagher, Associate Professor, Educational Research, and Executive Vice President, Business and Finance
Delia Garcia, Assistant Professor, Urban Education
Frank T. Hammons, Associate Professor, Vocational Industrial Education
Lynn Ilon, Assistant Professor, Foundations of Education
Dominic A. Mohamed, Professor, Vocational Administration, Supervision and Vocational Industrial Education
Michael Parsons, Associate Professor, Higher Education
Tonette S. Rocco, Assistant Professor, Adult Education and Human Resource Development
Janice R. Sandiford, Associate Professor, Higher Education, Health Occupations Education
Judith J. Slater, Associate Professor, Curriculum and Instruction: Instructional Leadership
Douglas H. Smith, Professor, Adult Education and Human Resource Development

Robert Vos, Associate Professor, Learning Technologies

The Department of Educational Leadership and Policy Studies has a wide range of graduate programs that are discussed in this catalog. In terms of undergraduate education, the department coordinates the professional education, educational foundations courses, and core courses which are part of the required common preparation of undergraduate teacher education majors at FIU. The department also offers two Bachelor degrees in Vocational Industrial Education (with tracks in Health Occupations Education and organizational training) and Home Economics Education/Family and Consumer Sciences and certification programs in Vocational Education are available in three areas.

In terms of the mission of the College, the Department is responsible for incorporation of educational foundations, multicultural, and/or general methodology studies into professional education programs. The Department is the primary source of the professional studies component.

Bachelors of Sciences Degrees

The Department offers Bachelor of Science degrees in:
- Vocational Home Economics Education/Family and Consumer Sciences Education
- Vocational Industrial Education with areas of concentration in: Health Occupations Education Organizational Training

Certificate Programs

The Department offers certificate programs in:
- Organizational Training
- Vocational Teacher Education
- Advanced Vocational Teacher Education

State of Florida and local school districts certification requirements are met by these programs. All stated admission requirements, are subject to change without notice, the certification requirement listed in this catalog should be considered minimum. A student who meets these minimum requirements is not automatically assured certification. It is the responsibility of the student to ensure that he/she has met with an advisor. Program faculty should be consulted for academic advisement.

General Information

Lower Division Requirements: Initial Teacher Preparation Programs

An Associate in Arts Degree or equivalent preparation in basic general education is required. If a student has not completed equivalents of the courses noted below, these courses must be completed with a grade of 'C' or higher prior to enrollment in courses at the University for which there are prerequisites.

For students entering their freshman year of college in or after the 2001-2002 academic year, the following General Education requirements (45 hours) will apply:
- Nine (9) semester hours in English to include writing, literature, and speech;
- Nine (9) semester hours in Science to include earth science, life science, and physical science, with a minimum of one associated laboratory;
- Nine (9) semester hours in Mathematics to include college algebra or above and geometry;
- Twelve (12) semester hours in Social Sciences to include American history and general psychology;
- Six (6) semester hours in humanities to include philosophy and fine arts.

Lower-Division Common Education Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 1005</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 2701</td>
<td>Teaching Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>EME 2040</td>
<td>Introduction to Educational Technology or acceptable substitute</td>
<td>3</td>
</tr>
</tbody>
</table>

*Requires field experience of 15 clock hours outside of class time.

In addition to EDG 2701, students must take six credit hours with an international or diversity focus in lower division. See individual programs for specific major prerequisite courses.

Admission Requirements: Undergraduate Initial Teacher Preparation Programs

To qualify for admission to the programs, undergraduate candidates must have met all the lower division requirements including: 60 credit hours of lower-division courses, all general education requirements, lower-division GPA of 2.5 or higher, and passing scores on all four parts of the CLAST
Exam.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

Field Experiences

Most courses offered by the department require observation and participation in selected schools. The course descriptions identify the courses which require in-school classroom experiences guided by the directing classroom teacher and a College of Education faculty member.

The student teaching assignments are fulfilled in designated field centers. This experience is on a full-time basis for one semester. Permission to student-teach is contingent upon successful completion of all other requirements specified in the program of study. Students may be assigned to do their student teaching during either the Fall or Spring semesters of their senior year. There is no student teaching during the Summer semester. Application for student teaching is the responsibility of the student. Necessary forms may be obtained from the office of the Director of Student Teaching. Deadline dates are July 1 for Spring student teaching and March 1 for Fall placement.

All stated admission requirements are to be considered minimums. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

Graduation Requirements

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices—preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Upon admission to the University and to the College, each student major in the department is assigned an advisor in the major or field of study who will assist the student in constructing a program of study. Upon successful completion of the course work specified in the program of study, the student is awarded the Bachelor of Science Degree with a major in a specified subject matter area or level of schooling (e.g., vocational home economics education/family and consumer sciences) and is eligible for regular teacher certification in the State of Florida upon successful completion of requirements specified by the Florida Department of Education.

Bachelor of Science in Vocational Home Economics Education/ Family and Consumer Sciences Education

Degree Program Hours: 126

Lower Division Common Prerequisites (60)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 1005</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 2701</td>
<td>Teaching Diverse Populations</td>
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</tr>
<tr>
<td>EME 2040</td>
<td>Introduction to Educational Technology or acceptable substitute</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Requires field experience of 15 clock hours outside of class time.

Lower Division Major Requirements

One course from each of the following areas:

- Applied Art
- Chemistry
- Economics
- Psychology
- Political Science

At least one course taken to meet the natural science requirements in General Education and/or prerequisites must include a laboratory component.

In addition to EDG 2701, students must take six credit hours with an international or diversity focus in lower division.

To qualify for admission to the program, undergraduates must have met all the lower division general education requirements including CLAST, completed 60 semester hours of lower division, 2.5 GPA, and must be otherwise acceptable into the program. Minimum GPA does not assure admission.

Upper Division Program: (66)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EDF 3430</td>
<td>Measurement &amp; Evaluation in the Classroom</td>
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<tr>
<td>EDF 4634</td>
<td>Cultural and Social Foundations</td>
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</tr>
<tr>
<td>EDG 3321</td>
<td>General Instructional Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>EDP 3004</td>
<td>Educational Psychology</td>
<td>3</td>
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<tr>
<td>EEX 3012</td>
<td>Educational Needs of Students with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>ESE 4xxx</td>
<td>Secondary Classroom Management</td>
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<tr>
<td>HEE 4104</td>
<td>Instruction in Vocational Home Economics</td>
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</tr>
<tr>
<td>HEE 4941</td>
<td>Student Teaching: Home Economics</td>
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<tr>
<td>RED 4325</td>
<td>Special Teaching: Lab Reading</td>
<td>3</td>
</tr>
<tr>
<td>TSL 4324</td>
<td>ESOL Issues &amp; Strategies for Content Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

Technical Preparation

Total of 30 semester hours needed in the following upper division categories:

- Housing and Home Furnishings
- Management and Family Economics
- Family and Child Development
- Food and Nutrition
- Textiles and Clothing

Technical preparation courses are offered in the Colleges of Education, Arts and Sciences, Engineering and Applied Sciences, Health Sciences, and the School of Hospitality Management.

Bachelor of Science in Vocational Industrial Education

Degree Program Hours: 120

Lower Division Common Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 2701</td>
<td>Teaching Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>EME 2040</td>
<td>Introduction to Educational Technology or acceptable substitute</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Requires field experience of 15 clock hours outside of class time.

Fifteen hours from a vocational specialty area.

At least one course taken to meet the natural science requirements in General Education and/or prerequisites must include a laboratory component.
In addition to EDG 2701, students must take six credit hours with an international or diversity focus in lower division.

Evidence of appropriate occupational experience must be presented prior to being admitted to the Vocational Industrial Education Bachelor of Science degree program.

To qualify for admission to the program, undergraduates must have met all the lower division/general education requirements including CLAST, completed 60 semester hours of lower division, 2.5 GPA, and must be otherwise acceptable into the program. Minimum GPA does not assure admission.

Upper Division Program: (60)

Professional Education: (56-62)

EDP 3004 Educational Psychology 3
EDF 4634 Cultural and Social Foundations 3
EDG 3321 General Instructional Decision Making 3
SPC 2600' Public Speaking 3
EME 3402 Computers for Teachers 3
RED 4325 Special Teaching Laboratory: Reading 3
EVT 3065 Foundations of Vocational Education 3
EVT 3161 Instructional Materials in Vocational Industrial Education 3
EVT 3165C Course Planning in Vocational Education 3
EVT 3367 Testing and Measurements in Vocational Education Subjects 3
EVT 3815C Vocational Education Laboratory Management and Safety 3
EVT 4351 Teaching Limited-English Proficient Students in Vocational Education 3
EVT 4502 Introduction to Vocational Special Needs 3
EVT 4940 Special Teaching Laboratory: Vocational Industrial Education and Technical Education 3
EVT 4941 Student Teaching Vocational Industrial Education and Technical Education 9
EVT 5369 Vocational Educational Media 3
EVT 4905 Directed Study in Vocational/Technical Education 1

Health Occupations Specialization

Area Requirements: (18)

EVT 4310 Planning and Operating HOE Programs 3
EVT 4311 Special Teaching Laboratory in HOE Programs 3
EVT 4312 Instructional Strategies and Evaluation in HOE Programs 3
EVT 4941 Student Teaching in Health Occupations Education Programs 9
Advisor approved electives 7

Organizational Training Track

The Organizational Training track prepares individuals to become professional trainers and instructors in non-public school settings. The track includes coursework appropriate to organizational training and has two options: (1) a 24 semester hour professional certificate program and (2) a baccalaureate degree. Both options require an internship experience in an industrial, business, public, or private organization setting. Admission to the track is open to experienced workers in industry, business, public or private organizations or agencies who hold an Associate in Arts degree or its equivalent. Minimum GPA does not assure admission.

This track does not lead to State of Florida Teacher Certification.

Lower Division Preparation

Required Technical Preparation

To qualify for admission to the program, undergraduates must have met all the lower division/general education requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program. Minimum GPA does not assure admission.

A minimum of two years occupational experience and technical preparation in the student's intended area of teaching is required for admission to the program.

Upper Division Preparation: (60)

Professional Education: (45)

ENC 2210 Technical Writing 3
EME 4103 Production and Use of A/V/Media 3
EDP 3004 Educational Psychology 3
ADE 4384 The Adult Learner 3
ADE 4274 Organizational Training and Development 3
EVT 3165C Course Planning in Vocational Education 3

Minor in Business: (15)

ACG 3024 Accounting for Managers and Investors 3
FIN 3005 Introduction to Business Finance 3
MAN 3025 Organization and Management 3
MAR 3023 Marketing Management 3
ISM 4151 Systems Management 3

Minor in Vocational Pedagogy: (15)

-EME 3402 Computers for Teachers 3
EVT 3065 Foundations of Vocational Education 3
EVT 3161 Instructional Materials in Vocational Industrial Education 3
EVT 3815C Vocational Laboratory Management and Safety 3
EVT 4365 Instructional Strategies and Evaluation in Vocational and Technical Education 3

Professional Certificate in Organizational Training

The professional certificate program in Organizational Training is designed to prepare experienced workers to serve in a variety of education, training, and development settings in industry, business and/or public and private agencies and organizations. These settings include three types of training: skills and technical, management, and motivational; and four specific training and development job roles: instructor, media producer, instructional designer, and organizational developer. An internship in a training and development in a business, industrial, agency
A minimum of two years occupational experience and an associate degree or its equivalent is required for admission.

This certificate program does not lead to State of Florida Teacher Certification.

**Required Program: (24)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ADE 4274</td>
<td>Organizational Training and Development</td>
<td>3</td>
</tr>
<tr>
<td>EME 3402</td>
<td>Computers for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>EME 4103</td>
<td>Production and Use of A/V Media</td>
<td>3</td>
</tr>
<tr>
<td>EVT 3165C</td>
<td>Course Planning in Vocational Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 4365</td>
<td>Instructional Strategies and Evaluation in Vocational and Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>EVT 4942C</td>
<td>Internship: Training and Development</td>
<td>6</td>
</tr>
</tbody>
</table>

**Program for Vocational-Technical Teacher Education Certification**

The College offers Vocational-Technical Teacher certification programs at initial, professional and advanced levels leading to the state issued certification for degree and local school district issued certification for non-degree vocational education teachers for middle, secondary and post-secondary vocational subject areas in (Industrial Education, Vocational Education, Home Economics Education, Family and Consumer Sciences Education, Health Occupations Education, Public Service and Occupational Specialists). Courses for Endorsements are offered in Work Experience, Diversified Cooperative Training, Vocational Education for Speakers of Other Languages (VESOL) and Limited English Proficient (LEP). Courses are also available in Agriculture Education, Business Education and Marketing Education except in the areas of “special methods”. Courses for renewal/recenty of Professional Teaching and Vocational Administration and Supervision certificates are also offered. Persons seeking initial, Professional and Vocational Administration and Supervision certification are encouraged to seek a statement of eligibility from the Florida Department of Education for degree persons and local school district vocational certification office for non-degree teachers where they are teaching or intend to teach prior to taking courses at the university.

The college currently offers, on an annual basis, special programs of vocational teacher certification, designed in cooperation with Miami-Dade and Broward school districts. Please consult with a program advisor for further information.

The college currently offers, on an annual basis, special programs of vocational teacher certification, designed in cooperation with Miami-Dade and Broward school districts. Please consult with a program advisor for further information.

**Program for Advanced Vocational Teacher Certification**

Special programs at advanced mastery levels in vocational teacher certification, designed in cooperation with local school districts, for salary incentives are offered by the college. Please consult with a program advisor for further information.
Educational and Psychological Studies

Patricia Barbetta, Chairperson and Associate Professor, Special Education
David Bidard, Assistant Professor, Special Education
Linda P. Blanton, Dean and Professor, Special Education
Leonard Bliss, Professor, Educational Research
Wendy Cheyney, Professor and Associate Dean, Learning Disabilities
Judith Cohen, Special Education Field Placement Coordinator
Patricia del Valle, Assistant Professor, School Psychology
Marisol Gavilan, Associate Professor, Educational Psychology/Bilingual Education
Barry Greenberg, Professor, Educational Research
Maureen Kenny, Assistant Professor, Counselor Education
Philip J. Lazarus, Associate Professor, School Psychology, Counselor Education
Luretha F. Lucky, Associate Professor, Mental Retardation
Adriana McEachern, Associate Professor, Counselor Education, Counselor Education
Bryan Moseley, Assistant Professor, Educational Psychology
Martha Pelaez, Associate Professor, Educational Psychology, Behavior Analysis
Howard Rosenberg, Associate Professor, Mental Retardation
Mark Shermis, (University of Michigan) Professor, Educational Research Methodology, Educational and Psychological Studies
Abbas Tashakori, Professor, Educational Research
Jethro W. Toomer, Professor, Counselor Education

General Information

The Department of Educational and Psychological Studies offers a variety of programs to prepare teachers of students who have emotional disturbance, learning disabilities, and mental retardation. Departmental and program information can be found at our website: http://www.fiu.edu/~edpsy.

All programs require substantial supervised fieldwork. State of Florida certification requirements are met for all programs preparing school personnel. All programs also have the necessary coursework and fieldwork to earn an ESOL (English Speakers of Other Languages) endorsement.

All stated admission requirements are to be considered minimal. A student who meets these minimal requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

The Department offers the following undergraduate and certificate programs:

Bachelor of Science

Degree Program Hours: 127

- Emotional Disturbance and ESOL
- Mental Retardation and ESOL
- Specific Learning Disabilities and ESOL and an add-on coursework in Varying Exceptionalities

Bachelor of Science in Special Education

The undergraduate special education programs' specializations utilize a field-centered training model leading to approval for State of Florida Certification in Specific Learning Disabilities and ESOL, Emotional Disturbance and ESOL, and Mental Retardation and ESOL.

The special education programs described here are for students accepted Fall 2002 or later. Students accepted sooner have different requirements. Please see a special education advisor for information.

The special education program recognizes that students with disabilities are entitled to a free and appropriate public education, that all students are to be educated in the least restrictive yet most enabling environment and are to be mainstreamed to the greatest extent possible. Special educators also provide services to preschool children and adults.

Given this context, undergraduate special education programs emphasize the development of the following competencies to be demonstrated in both the University and field settings:

1. Identifying and diagnosing students with learning and/or behavior problems.
2. Prescribing and implementing appropriate individual educational plans to meet these problems.
3. Effectsing appropriate instruction for children with learning and/or behavior problems.
5. Planning for inclusion and collaboration with parents and other education personnel.
6. Working with students with disabilities from culturally and linguistically diverse backgrounds. Diagnostic-prescriptive teaching and management skills are to be demonstrated with students with mild disabilities who range in age from infancy to adulthood, and who represent multiculturals, multilingual backgrounds. Special education majors may have field work with students who have mild, moderate, and severe disabilities.

Lower Division Requirements:

Initial Teacher Preparation Programs

An Associate in Arts Degree or equivalent preparation in basic general education is required. If a student has not completed equivalents of the courses noted below, these courses must be completed with a grade of 'C' or higher prior to enrollment in courses at the University for which there are prerequisites.

For students entering their freshmen year of college in or after the 2001-2002 academic year, the following General Education requirements (45 hours) will apply:

- Nine (9) semester hours in English to include writing, literature, and speech;
- Nine (9) semester hours in Science to include earth science, life science, and physical science, with a minimum of one associated laboratory;
- Nine (9) semester hours in Mathematics to include college algebra or above and geometry;
- Twelve (12) semester hours in Social Sciences to include American history and general psychology;
- Six (6) semester hours in humanities to include philosophy and fine arts.

Lower-Division Common Education Prerequisites

EDF 1005 Introduction to Education 3
EDG 2701 Teaching Diverse Populations 3
EME 2040 Introduction to Educational Technology 3

1 Requires field experience of 15 clock hours outside of class time.
In addition to EDG 2701, students must take six credit hours with an international or diversity focus in lower division. See individual programs for specific major prerequisite courses.

**New admission requirements**
To qualify for admission to the program, undergraduates must have met all the lower division requirements including having passed the CLAST, and have a 2.5 GPA or above.

The undergraduate special education program is offered in a sequence. Although, there is flexibility in the schedule, there are many courses that have to be taken at a certain times in the program. In addition, senior block and student teaching are offered ONLY at Fall and Spring semesters, respectively. It is imperative that the students work closely with their advisors to take courses in the appropriate sequence. Faculty will advise students on special education program course sequence prior to official acceptance. Course programs and many course names are new. Please consult your advisor for additional information.

**New graduation requirements**
Graduation requirements in effect for students admitted on or after Fall 2001 include successful demonstration of the Florida Educator Accomplished Practices, GPA 2.5 or above and passing scores on all three sections of the Florida Teacher Certification Exam.

**Emotionally Handicapped and ESOL (67)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EEX 3012</td>
<td>Educational Needs of Students with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 3202</td>
<td>Personal Foundations and Transitional Services for Individuals with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDP 3004</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPA 3000</td>
<td>Language Development and Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>EEX 3243</td>
<td>Instructional and Assistive Technology in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>TSL 3370</td>
<td>ESOL Issues: Principles and Practices I</td>
<td>3</td>
</tr>
<tr>
<td>EEX 3221</td>
<td>Assessment of Students with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4601</td>
<td>Behavioral Approaches to Learning and Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDG 3321</td>
<td>General Instructional Decision Making</td>
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**Specific Learning Disabilities and ESOL (67)**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>EEX 3012</td>
<td>Educational Needs of Students with Exceptionalities</td>
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<td>EEX 4601</td>
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<td>EDG 3321</td>
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<tr>
<td>RED 4150</td>
<td>Teaching Beginning Literacy</td>
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<td>RED 4311</td>
<td>Teaching Intermediate Reading</td>
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<td>RED 4325</td>
<td>Reading in the Content Areas</td>
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<tr>
<td>EEX 4240</td>
<td>Literacy in Special Education</td>
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<td>MAE 4310</td>
<td>Teaching Elementary Math</td>
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<tr>
<td>TSL 4141</td>
<td>ESOL Issues: Principles and Practices II</td>
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**Senior Block: (Fall Only)**

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<td>Cultural and Social Foundations of Education</td>
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<tr>
<td>EED 4243</td>
<td>Strategies for Teaching Students with Emotional Disabilities</td>
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<tr>
<td>EED 4244</td>
<td>Curriculum for Teaching Students with Emotional Disabilities</td>
<td>3</td>
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<tr>
<td>EED 4212</td>
<td>Behavioral Approaches to Learning and Classroom Management</td>
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<tr>
<td>EEX 4810</td>
<td>Supervised Practicum in Special Education</td>
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**Student Teaching: (Spring Only)**

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<td>Student Teaching</td>
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<td>EEX 4936</td>
<td>Student Teaching Seminar</td>
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**Mental Retardation and ESOL (67)**

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<tr>
<td>TSL 3370</td>
<td>ESOL Issues: Principles and Practices I</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4601</td>
<td>Behavioral Approaches to Learning and Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDG 3321</td>
<td>General Instructional Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>RED 4150</td>
<td>Teaching Beginning Literacy</td>
<td>3</td>
</tr>
<tr>
<td>RED 4311</td>
<td>Teaching Intermediate Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 4325</td>
<td>Reading in the Content Areas</td>
<td>3</td>
</tr>
</tbody>
</table>
EEX 4240 Literacy in Special Education 3
MAE 4310 Teaching Elementary Math 3
TSL 4141 ESOL Issues: Principles and Practices II 3
Senior Block: (Fall Only)
EDF 4634 Cultural and Social Foundations of Education 3
EMR 4362 Strategies for Teaching Students with Mental Retardation 3
EMR 4221 Curriculum for Teaching Students with Mental Retardation 1,2 3
EED 4212 Behavioral Approaches to Learning and Classroom Management II 3
EEX 4810 Supervised Practicum in Special Education 1,2 1
Student Teaching: (Spring Only)
EEX 4861 Student Teaching 9
EEX 4936 Seminar in Student Teaching 3

Varying Exceptionalities: Add-on
The following courses are available to add on certification in the area of Varying Exceptionalities to program completers in the areas of SLD, MR, and/or EH.
EED 4243 Strategies for Teaching Students with Emotional Handicaps 3
EEX 4050 Nature and Needs of Students with Mild Disabilities 3
ELD 4240 Strategies for Teaching Students with Learning Disabilities 1,2 3
EMR 4362 Strategies for Teaching Students with Mental Retardation 1,2 3

1 Field Work Required.
2 Senior Block, Fall term only.

Note: Courses within the undergraduate program require field placement during school hours. RED 4150, RED 4311, RED 4325, and MAE 4310 require registration in corequisite EEX 4940. In addition to a full-time student teaching placement during the final semester, students engage in a Senior Block experience the fall semester of their senior year. This experience requires a special education field placement that includes 160 hours (20 hours per week for 8 weeks) and class attendance at the University. Permission to student teach is contingent upon satisfactory completion of all requirements specified in the program. Applications to student teach must be filed in the office of the Director of Internship and Student Teaching by the date indicated in the student teaching office preceding the Spring Student Teaching semester.

Please confirm this due date with your advisor. The due date is subject to change.

All stated admission requirements are to be considered minimal. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.
Health, Physical Education and Recreation

Robert M. Wolff, Professor and Chair, Parks and Recreation Management and Sport Management
Laura Blitzer, Associate Professor, Physical Education
Judith A. Blucker, Professor, Physical Education, and Vice Provost, Budget
Michelle A. Cleary, Assistant Professor, Advanced Athletic Training/ Sports Medicine
Charmaine DeFrancesco, Associate Professor, Physical Education and Sport Management
Daniel L. Dustin, Professor, Parks and Recreation Management
Dan K. Hibbler, Assistant Professor, Parks and Recreation
Richard Lopez, Associate Professor, Exercise Physiology
Alexis McKenney, Assistant Professor, Therapeutic Recreation
David Sandler, Instructor, Strength and Conditioning
Debra R. Trigoboff, Instructor, Athletic Training
Bill Yongue, Associate Professor, Elementary Physical Education

General Information
The Department of Health, Physical Education and Recreation offers five programs with several tracks which lead to a Bachelor of Science degree. These programs include: Athletic Training, Exercise Science, Parks and Recreation Management, Physical Education for Grades K-8, and 6-12, Sports Management, and Strength and Conditioning.

All stated admission requirements, which are subject to change, should be considered minimum. A student who meets these minimum requirements is not automatically assured admission. It is the responsibility of the student to ensure that he/she has met the requirements. Program faculty should be consulted for academic advisement.

Bachelor of Science in Exercise and Sports Sciences

Degree Program Hours: 120
Exercise Physiology Track

The undergraduate exercise physiology track is designed to prepare individuals to work in the fields of exercise testing, cardiac rehabilitation, strength and conditioning, and adult fitness. The track will prepare students for two certification examinations offered by the American College of Sports Medicine, the National Strength and Conditioning Association, and the National Strength Professionals Association. Some of the certificates include Certified Strength and Conditioning Specialist, Health/Fitness Instructor, and Personal Trainer. We are recognized by the National Strength and Conditioning Association as being an institution that provides and prepares individuals for the Strength and Conditioning profession.

Lower Division Preparation
To qualify for admission into the program, students must meet all published admission requirements which include: program prerequisites, General Education/Gordon Rule, GPA, and CLAST.

Upper Division Program: (60)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3xxx</td>
<td>Anatomy for Exercise and Sports Sciences Major</td>
<td>3</td>
</tr>
<tr>
<td>PET 3325L</td>
<td>Anatomy Lab for Exercise and Sports Sciences Majors</td>
<td>1</td>
</tr>
<tr>
<td>PET 3351C</td>
<td>Physiology for Exercise and Sports Sciences Majors</td>
<td>1</td>
</tr>
<tr>
<td>PET 3351L</td>
<td>Physiology Lab for Exercise and Sports Sciences Majors</td>
<td>3</td>
</tr>
<tr>
<td>PET 4389</td>
<td>Advanced Strength and Conditioning or</td>
<td>3</td>
</tr>
<tr>
<td>PET 4xxx</td>
<td>Personal Training Introduction to Microcomputers or</td>
<td>3</td>
</tr>
</tbody>
</table>

Demonstrate Competency in Microcomputers

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUN 2201</td>
<td>Principles of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PEP 4111</td>
<td>Health/Fitness Instructor</td>
<td>3</td>
</tr>
<tr>
<td>PEP 4114</td>
<td>Exercise Specialist</td>
<td>3</td>
</tr>
<tr>
<td>PET 3310</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PET 3351</td>
<td>Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4383</td>
<td>Evaluation in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4384</td>
<td>Exercise Test Technology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4622</td>
<td>Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>PET 4622L</td>
<td>Athletic Injuries Lab</td>
<td>1</td>
</tr>
<tr>
<td>PET 4632</td>
<td>Therapeutic Exercise for the Injured Athlete</td>
<td>3</td>
</tr>
</tbody>
</table>

Bachelor of Science in Exercise and Sports Sciences

Degree Program Hours: 120

Exercise Physiology Track

PET 4632L | Therapeutic Exercise for the Injured Athlete Lab | 1     |
PET 4940 | Internship in Exercise Physiology | 1-15   |
Advisor approved electives | 0-13 |

Athletic Training Track
The undergraduate athletic training track is designed to prepare individuals to work as certified athletic trainers at the high school, college, or professional level, or in the physical therapy clinical setting. The track will prepare students for the National Athletic Trainers Association Board of Certification (NATABOC) examination. Students have the opportunity to prepare for an additional examination as a Certified Strength and Conditioning Specialist (CSCS).

Lower Division Preparation
To qualify for admission into the program, students must meet all published admission requirements which include: program prerequisites, General Education/Gordon Rule, GPA, and CLAST. Students who do not meet the College admission requirements may request a formal review by: (a) writing an admission appeal letter to the Department requesting a review of the applicant’s records and indicating the reason(s) special consideration should be granted to the applicant; (b) forwarding three letters of recommendation; and (c) participating in a formal interview with departmental/program faculty or representatives.

Upper Division Program: (60)

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<td>PET 3325L</td>
<td>Anatomy Lab for Exercise and Sports Sciences Majors</td>
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<tr>
<td>PET 3351C</td>
<td>Physiology for Exercise and Sports Sciences Majors</td>
<td>1</td>
</tr>
<tr>
<td>PET 3351L</td>
<td>Physiology Lab for Exercise and Sports Sciences Majors</td>
<td>3</td>
</tr>
<tr>
<td>PET 4389</td>
<td>Advanced Strength and Conditioning or</td>
<td>3</td>
</tr>
<tr>
<td>PET 4xxx</td>
<td>Personal Training Introduction to Microcomputers or</td>
<td>3</td>
</tr>
<tr>
<td>HUN 2201</td>
<td>Principles of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PEP 4110</td>
<td>Health/Fitness Instructor</td>
<td>3</td>
</tr>
<tr>
<td>PEP 4114</td>
<td>Exercise Specialist</td>
<td>3</td>
</tr>
<tr>
<td>PET 3310</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PET 3351</td>
<td>Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4383</td>
<td>Evaluation in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4384</td>
<td>Exercise Test Technology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4622</td>
<td>Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>PET 4622L</td>
<td>Athletic Injuries Lab</td>
<td>1</td>
</tr>
<tr>
<td>PET 4632</td>
<td>Therapeutic Exercise for the Injured Athlete</td>
<td>3</td>
</tr>
</tbody>
</table>

PET 4632L | Therapeutic Exercise for the Injured Athlete Lab | 1     |
PET 4940 | Internship in Exercise Physiology | 1-15   |
Advisor approved electives | 0-13 |
All internships must be done under the supervision of a full time Certified and Licensed Athletic Trainer (ATC/L). Advisor approved Electives 0-12

**Strength and Conditioning Track**

The Strength and Conditioning track is housed within the Exercise Physiology Program. The courses offered are designed to give the student both the theoretical and practical application of skills and knowledge required to work in the field of Strength and Conditioning. The program takes an expanded view of strength training as it relates to all populations including athletes, fitness enthusiasts, sedentary individuals and special cases. Courses are geared as both preparation courses for certification and extensions of applied research in field application. Since the field of strength training is continually changing, courses are frequently updated to reflect the current industry practices.

Florida International University has been recognized by the National Strength and Conditioning Association (NSCA) as offering a program that prepares individuals to work in the field of Strength and Conditioning. Florida International University is also recognized by the National Strength Professionals Association (NSPA) as providing a comprehensive curriculum in Strength and Conditioning.

**Upper Division Program: (60)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ZOO 3731</td>
<td>Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>PCB 3703</td>
<td>Human Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>PCB 3704</td>
<td>Human Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>HUN 2201</td>
<td>Principles of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PET 3310</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4622</td>
<td>Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>PET 4622L</td>
<td>Athletic Injuries Lab</td>
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</tr>
<tr>
<td>PEP 4114</td>
<td>Exercise Specialist</td>
<td>3</td>
</tr>
<tr>
<td>PET 4384</td>
<td>Exercise Test Technology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4383</td>
<td>Evaluation in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PET 4389</td>
<td>Advanced Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>PEM 4103</td>
<td>Advanced Personal Training</td>
<td>3</td>
</tr>
<tr>
<td>PET 4214</td>
<td>Sports Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PEP 4114</td>
<td>Exercise Specialist</td>
<td>3</td>
</tr>
<tr>
<td>PET 4601</td>
<td>Comprehensive Conditioning of the Elite Athlete</td>
<td>3</td>
</tr>
<tr>
<td>PET 4940</td>
<td>Internship in Strength and Conditioning</td>
<td>1-15</td>
</tr>
</tbody>
</table>

**Bachelor of Science in Parks and Recreation Management**

**Degree Program Hours: 120**

The Parks and Recreation undergraduate curriculum offers professional preparation programs designed to prepare students for employment in the leisure service delivery system and recreational therapy services. The program is oriented towards direct services, supervisory, and management employment opportunities.

A student may elect to gain competencies in Leisure Service Management, Parks Management, and Recreational Therapy.

*Note: It is important to note that the Parks and Recreation Management curriculum is under review and changes to the curriculum are expected. Please see an advisor when scheduling courses.*

**Lower Division Preparation**

To qualify for admission into the program, students must meet all published admission requirements which include: program prerequisites, General Education/Gordon Rule, GPA, and CLAST. Students who do not meet the College admission requirements may request a formal review by: (a) writing an admission appeal letter to the Department requesting a review of the applicant's records and indicating the reason(s) special consideration should be granted to the applicant; (b) forwarding three letters of recommendation; and (c) participating in a formal interview with departmental/program faculty or representatives.

**Required Core Courses: (33)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>LEI 3000</td>
<td>Leisure &amp; Recreation in America</td>
</tr>
<tr>
<td>LEI 3707</td>
<td>Inclusive Recreation</td>
</tr>
<tr>
<td>LEI 3542</td>
<td>Principles of Parks</td>
</tr>
<tr>
<td>LEI 3501</td>
<td>Liability and Law in Leisure, Recreation &amp; Sports</td>
</tr>
<tr>
<td>ACG 3024</td>
<td>Financial Accounting for Managers</td>
</tr>
<tr>
<td>PAD 4223</td>
<td>Public Sector Budgeting</td>
</tr>
<tr>
<td>LEI 4940</td>
<td>Internship</td>
</tr>
<tr>
<td>LEI 4941</td>
<td>Internship II</td>
</tr>
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</table>

**Leisure Service Management Track: (27)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>LEI 3437</td>
<td>Program Development in Recreation and Sports</td>
</tr>
<tr>
<td>LEI 3630</td>
<td>Care, Maintenance and Design</td>
</tr>
<tr>
<td>MAN 4701C</td>
<td>Business and Society</td>
</tr>
<tr>
<td>LEI 4573</td>
<td>Leisure Services</td>
</tr>
<tr>
<td>LEI 4590</td>
<td>Seminar in Parks, Recreation and Sport Management</td>
</tr>
<tr>
<td>LEI 4842</td>
<td>Private &amp; Commercial Sport and Recreation Management</td>
</tr>
<tr>
<td></td>
<td>Advisor approved electives</td>
</tr>
</tbody>
</table>

(Students are encouraged to use electives toward a Minor in Business, Entrepreneurship, Tourism Management, Public Administration, or Marketing, or Communication.)

**Parks Management Track: (27)**

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>LEI 3457</td>
<td>Program Development in Recreation and Sports</td>
</tr>
<tr>
<td>LEI 3630</td>
<td>Care, Maintenance and Design</td>
</tr>
<tr>
<td></td>
<td>Two Environmental Science Courses and Labs</td>
</tr>
<tr>
<td></td>
<td>Two Environmental Social Science Courses</td>
</tr>
<tr>
<td></td>
<td>Two Environmental Electives</td>
</tr>
<tr>
<td></td>
<td>Advisor approved electives:</td>
</tr>
</tbody>
</table>

*the above six courses qualify you for an Environmental Studies Certificate.*

**Recreational Therapy Track Courses (27)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLP 4144</td>
<td>Abnormal Psychology</td>
</tr>
<tr>
<td>LEI 3703</td>
<td>Introduction to Therapeutic Recreation</td>
</tr>
<tr>
<td>LEI 3724</td>
<td>Therapeutic Recreation &amp; Facilitation Techniques</td>
</tr>
<tr>
<td>LEI 4700</td>
<td>Programming</td>
</tr>
<tr>
<td>LEI 4711</td>
<td>Client Assessment, Evaluation and</td>
</tr>
</tbody>
</table>
Required Corequisites for Therapeutic Recreation:
The student must have completed a minimum of 18 semester hours from three of the following six areas: adaptive physical education, biological/physical science, human services, psychology, sociology, or special education. Courses may be completed at the lower division. All internships must be done under the supervision of a full time Certified Therapeutic Recreation Specialist (CTRS).

Bachelor of Science in Physical Education:
Grades K-8 (130)

This program is designed for individuals who wish to become certified to teach physical education in the elementary and middle schools. Upon successful completion of the program and the requirements specified by the Florida Department of Education, degree recipients are eligible for regular teacher certification in the State of Florida. Students entering the College of Education, Fall 2001 and beyond, must pass all sections of the Florida Teacher Certification Exam to graduate.

Admission Requirements:
Undergraduate Initial Teacher Preparation Programs

To qualify for admission to the programs, undergraduate candidates must have met all the lower division requirements including: 60 credit hours of lower-division courses, all general education requirements, lower-division GPA of 2.5 or higher, and passing scores on all four parts of the CLAST Exam.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

Lower Division Requirements: Initial Teacher Preparation Programs

An Associate in Arts Degree or equivalent preparation in basic general education is required. If a student has not completed equivalents of the courses noted below, these courses must be completed with a grade of ‘C’ or higher prior to enrollment in courses at the University for which there are prerequisites.

For students entering their freshman year of college in or after the 2001-2002 academic year, the following General Education requirements (45 hours) will apply:

- Nine (9) semester hours in English to include writing, literature, and speech;
- Nine (9) semester hours in Science to include earth science, life science, and physical science, with a minimum of one associated laboratory;
- Nine (9) semester hours in Mathematics to include college algebra or above and geometry;
- Twelve (12) semester hours in Social Sciences to include American-ethnic history and general psych-ology;
- Six (6) semester hours in humanities to include philosophy and fine arts.

Lower Division Program Requirements:

Anatomy and Physiology I with Lab 3-4
Care and Prevention of Athletic Injuries 3-4
Skills and Practices Courses in Physical Activities 4-5
Conditioning, Fitness and Wellness Courses in Physical Activities 3

Lower Division Common Prerequisites

Required Courses

EDF 1005 Introduction to Education 3
EDG 2701 Teaching Diverse Populations 3
EME 2040 Introduction to Educational Technology, or acceptable substitute 3

1 Requires field experience of 15 clock hours outside of class time.

In addition to EDG 2701, students must take six credit hours with an international diversity focus in lower division. All required courses must be completed with a grade of ‘C’ or higher.

Upper Division Program: (61)

Professional Education: (15)

EDF 4634 Cultural and Social Foundations of Education 3
EDG 3321 General Instructional Decision Making 3
EDP 3004 Educational Psychology 3

Subject Matter Specialization: (46)

DAE 3371 Dance in Elementary and Middle School 3
PEO 4041 Games in Elementary and Middle School 3
PEP 3205 Gymnastics in Elementary and Middle School 3
PET 3020 Foundations of Physical Education 3
PET 3310 Kinesiology 3
PET 3351 Exercise Physiology 3
PET 3640 Adapted Physical Education 3
PET 4510 Evaluation in Physical Education 3
PEO 4004 Principles and Practices of Coaching 3
PET 4622 Athletic Injuries 3
PET 3730 Physical Education in the Middle School 3
PET 4035 Motor Learning and Development 4
PET 4442 Physical Education in the Secondary School 3
PEP 4102 Applied Concepts of Fitness and Health 3
PET 4401 Administration of Physical Education and Sport 3
RED 4325 Reading in the Content Area 3
TSL 4234 ESOL Issues and Strategies for Content Teachers 3
EDF 3430 Measurement and Evaluation in the Classroom 3
EDP 3218 Classroom Management 3
PET 4929 Senior Seminar 3
PET 4944 Student Teaching: Grades K-8 9

Graduation Requirements

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam. For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

Students should see an advisor at the start of their required courses may apply for admission if the deficiencies are not greater than eight semester hours. However, all program prerequisites and all program courses must be completed before a student will be permitted to student teach. Students must meet all College of Education admission requirements.

**Bachelor of Science in Physical Education: Grades 6-12**

**Degree Program Hours: 130**

This program is designed for individuals who wish to become certified to teach physical education in the middle and secondary schools. Upon successful completion of the program and the requirements specified by the Florida Department of Education, degree recipients are eligible for regular teacher certification in the State of Florida.

**Admission Requirements:**

**Undergraduate Initial Teacher Preparation Programs**

To qualify for admission to the programs, undergraduate candidates must have met all the lower division requirements including: 60 credit hours of lower-division courses, all general education requirements, lower-division GPA of 2.5 or higher, and passing scores on all four parts of the CLAST Exam.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

**Lower Division Requirements:**

**Initial Teacher Preparation Programs**

An Associate in Arts Degree or equivalent preparation in basic general education is required. If a student has not completed equivalents of the courses noted below, these courses must be completed with a grade of "C" or higher prior to enrollment in courses at the University for which there are prerequisites.

For students entering their freshman year of college in or after the 2001-2002 academic year, the following General Education requirements (45 hours) will apply:

- Nine (9) semester hours in English to include writing, literature, and speech;
- Nine (9) semester hours in Science to include earth science, life science, and physical science, with a minimum of one associated laboratory;
- Nine (9) semester hours in Mathematics to include college algebra or above and geometry;
- Twelve (12) semester hours in Social Sciences to include American history and general psychology;
- Six (6) semester hours in humanities to include philosophy and fine arts.

**Lower Division Program Requirements:**

1. Anatomy and Physiology I with Lab 3-4
2. Care and Prevention of Athletic Injuries 3-4
4. Conditioning, Fitness and Wellness Courses in Physical Activities 3

**Lower-Division Common Education Prerequisites:**

- EDF 1005 Introduction to Education 3
- EDF 2701 Teaching Diverse Populations 3
- EME 2040 Introduction to Educational Technology, or acceptable substitute 3

1. Requires field experience of 15 clock hours outside of class time.

In addition to EDF 2701, students must take six credit hours with an international diversity focus in lower division. All required courses must be completed with a grade of 'C' or higher.

**Upper Division Program: (61)**

**Professional Education: (15)**

- EDF 4634 Cultural and Social Foundations of Education 3
- EDF 3321 General Instructional Decision Making 3

- EDP 3004 Educational Psychology 3
- RED 4325 Reading in the Content Area 3
- TSL 4234 ESOL Issues and Strategies for Content Teachers 3
- EDF 3430 Measurement and Evaluation in the Classroom 3
- EDP 3218 Classroom Management 3

**Subject Matter Specialization: (46)**

- PET 3020 Foundations of Physical Education 3
- PET 3310 Kinesiology 3
- PET 3351 Exercise Physiology 3
- PET 3640 Adapted Physical Education 3
- PET 4510 Evaluation in Physical Education 3
- PEO 4004 Principles and Practices of Coaching 3
- PET 4622 Athletic Injuries 3
- PET 3730 Physical Education in the Middle School 3
- PET 4035 Motor Learning and Development 4
- PET 4442 Physical Education in the Secondary School 3
- PEP 4102 Applied Concepts of Fitness and Health 3
- PET 4401 Administration of Physical Education and Sport 3
- PET 4929 Student Teaching Seminar 3
- PET 4945 Student Teaching Grades 6-12 9

Applications for student teaching are due in the office of the Director of Student Teaching by July 1 for Spring semester placement, and by March 1 for Fall semester placement.

**Graduation Requirements**

In the College of Education, all undergraduate students are required to meet the following requirements before they can graduate from their respective teacher education programs.

1. An overall GPA of 2.5
2. Successful demonstration of all the Florida Educator Accomplished Practices - preprofessional level
3. Passing scores on the three tests that make up the Florida Teacher Certification Exam.

For students who passed the CLAST prior to July 1, 2002 the new General Knowledge Test will not be required.

**Sports Management Track**

The undergraduate sports management track prepares individuals for managerial positions in sports-related fields.
The core program emphasizes the development of managerial and administrative skills. Program electives allow students to pursue a specialization in an area of interest.

**Lower Division Preparation**

It is recommended that students complete introductory accounting and management courses, as well as, a variety of sports skill classes.

To qualify for admission into the program, students must meet all College of Education published admission requirements which include: program prerequisites, General Education/Gordon Rule, GPA, and CLAST. Students who do not meet the College admission requirements may request a formal review by: filing for a waiver.

Contact the Office of Student Services in EB 221 for information.

*Note: The Sport Management track is under review and changes to the curriculum are expected. Please see an advisor when scheduling classes.*

**Upper Division Program: (60)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC 4240</td>
<td>Business Letters and Reports</td>
<td>3</td>
</tr>
<tr>
<td>LEI 3437</td>
<td>Program Development in Recreation and Sports</td>
<td>3</td>
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<tr>
<td>LEI 3501</td>
<td>Liability and Law in Leisure, Recreation &amp; Sports</td>
<td>3</td>
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<tr>
<td>LEI 3542</td>
<td>Principles of Parks, Recreation, and Sport Management</td>
<td>3</td>
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<tr>
<td>LEI 4573</td>
<td>Leisure Services Marketing</td>
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</tr>
<tr>
<td>PAD 4223</td>
<td>Public Sector Budgeting</td>
<td>3</td>
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<tr>
<td>ACG 3024</td>
<td>Financial Accounting for Managers</td>
<td>3</td>
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<tr>
<td>PET 4004</td>
<td>Coaching Sports</td>
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<tr>
<td>PET 4214</td>
<td>Psychology of Sport</td>
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<tr>
<td>PET 4251</td>
<td>Sociology of Sport</td>
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<td>PET 4401</td>
<td>Administration of Physical Education And Sport</td>
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</tr>
<tr>
<td>PET 4946</td>
<td>Internship in Sports Management</td>
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</tbody>
</table>

*PET 4214 and PET 4251 should be completed during the student's senior year; PET 4946 should be completed during the student's last semester of enrollment.*

**Advised Program Electives (21)**

Students should consult with their program advisor.
Course Descriptions

Definition of Prefixes
ADE - Adult Education; ARE - Art Education; BTE - Business Teacher Education; CGS - Computer Applications; CHD - Child Development; DAE - Dance Education; EDA - Education: Educational Leadership; EDE - Education: Elementary; EDF - Education: Foundations; EDG - Education: General; EDH - Education: Higher; EDP - Education: Psychology; EDS - Education: Supervision; EEC - Education: Early Childhood; EED - Education: Emotional Disorders; EEX - Education: Exceptional Child, Core Competencies; EGC - Education: Guidance and Counseling; EGI - Education: Exceptional Child, Gifted; EIA - Education: Technology; ELD - Education: Specific Learning Disabilities; EME - Education: Technology and Media; EMR - Education: Mental Retardation; ESE - Education Secondary; EVT - Education: Vocational Technical; FAD - Family Development; FLE - Foreign Language Education; HEE - Home Economics Education; IHHD - Housing; HLP - Health, Leisure, and Physical Education; HME - Home Management Equipment; HOE - Health Occupations Education; LAE - Language Arts and English Education; LEI - Leisure; MAB - Mathematics Education; MHS - Mental Health Services; MUE - Music Education; PEL - Physical Education; PEM - Physical Education Activities; PEO - Physical Education Activities; PEP - Physical Education Activities; PEQ - Physical Education Professional Water; PET - Physical Education Therapy; RED - Reading Education; SCR - Science Education; SPS - School Psychology; SSE - Social Studies Education; TSL - TESOL.

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering; ALT-alternate years; AR-as required.

ADE 4274 Organizational Training and Development (3). Describes role of employee training/development in a variety of organizations. History/current trends and issues/future directions noted. Training and development in specific organizations emphasized.

ADE 4384 The Adult Learner (3). Identifies the characteristics and evolving development of adults. Reviews the primary learning theories and analyzes those most applicable for adults as learners.

ADE 5081 Introduction to Adult Education and Human Resource Development (3). Developing rationale for and philosophy of human resource development/adult education: contrast agencies, program, and curricula; analyzing factors affecting human resource development, differentiating adults and youths as learners; planning and appraising human resource development programs.

ADE 5383 Instructional Processes in AE/HRD (3). Analyzing models for instructional design; identifying and evaluating variables related to such models; developing designs unique for adult learners and organizational needs. (F)

ADE 5385 Adult Teaching and Learning (3). Differentiating theories of learning in relation to teaching adults; contrasting characteristics of adults as opposed to youth; evaluating the implications of such distinctions in relation to learning situations appropriate for adults.

ARE 3313 Teaching Elementary Art (3). Provides understandings, skills, and dispositions to teach art as a mode of inquiry and creative expression to diverse populations in the preschool and elementary grades. Part of Block II. Prerequisites: Block I. Corequisite: EDE 4941, Field Experience required. Lab fee required.

ARE 4316 Special Teaching Laboratory: Art in Grades K-6 (3). Development of instructional skills, techniques, and strategies for teaching art in the elementary school. Laboratory and field participation required. Prerequisites: EDG 3321, EDP 3004. Minimum prerequisite or corequisite of 20 hours required in subject matter specialization. Lab fee required. (F)

ARE 4341 Special Teaching Laboratory: Art in Grades 7-12 (3). Development of instructional skills, techniques, and strategies for teaching art in the middle and senior high school. Laboratory and field participation required. Prerequisites: EDG 3321, ARE 4316. Minimum prerequisite or corequisite of 20 hours required in subject matter specialization. Lab fee required. (F)

PRE 4459 New Media - Crafts in the Classroom (3). Understand the role and evolution of crafts in the schools, their function in child development, planning, assessment and basic production techniques with various media. Lab fee required. (F,S)

ARE 4848 Concepts in Art Education (3). Understand philosophies and events that influenced the development of Art Education and the application of Discipline-Based Art Education to the classroom. (F,SS)

ARE 4940 Student Teaching in Art (9). Supervised teaching in an elementary and secondary school. Prerequisites: EDG 3321, ARE 4316, 4341; RED 4325, and 18 semester hours of the course work required in art. Admission to the program. (S)

ARE 5457C Introduction to Computer Art (3). Exploration of the color computer, peripherals and selected software as tools for creating expressive art. Individual art. Individual imaging projects, lesson plans, readings and presentation required. (S)

ARE 5553 Introduction to Art Therapy (3). An overview of art therapy as a verbal and nonverbal means of communication with special emphasis on psychodynamic fundamentals inherent to the process for the purpose of diagnosis, treatment, and intervention for people with special needs. (F)

ARE 5555C Advanced Art Therapy (3). Examination of strategies, techniques and current theoretical approaches in art therapy. Delineation and application of an individual field experience is required. Prerequisite: ARE 5553. (S)

ARE 5905 Directed Study in Art Education (1-3). Individual investigation and research in one or more areas of art education. Prerequisite: Consent of professor. (F,SS)

ARE 5945 Supervised Teaching: Art Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Program and completion of prerequisite course work in education and subject matter area. Supervised teaching in an elementary or secondary school. (S)

CHD 3220 Child Development: Infancy and Early Childhood (3). Systematic study of total developmental process in the child from conception through early childhood emphasizing the effects of home and
family environment. Includes observational experiences. (AR)

CHD 4210 Middle Childhood and Adolescent Development (3). Extension of the study of developmental patterns of children, with emphasis on physical, intellectual, social, and emotional maturation through adolescence. Analysis of environmental and home influences. (AR)

CHD 5266 Advanced Studies in Child Development (3). Survey of current literature on selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Prerequisites: CHD 3220 and CHD 4210 or approved equivalent. (AR)

CGS 5410 Logo for Educators (3). Aspects of Logo as used by educators. Creative aspects, the language, philosophy, structure, and application. Prerequisite: Computers in Classroom or equivalent. (AR)

DAE 3300 Dance in the Elementary, Middle, and Secondary School (3). Includes content and methods for teaching dance in grades K-12. Emphasis on structured multi-cultural dance forms including folk and square dance, social dance, and line dancing, field experience required (20 hours). Prerequisite: Dance Departments. (AR)

DAE 3320 Dance in the Elementary and Middle School (3). The study of the scope, structure, and sequence of the dance program for grades K-8. Emphasis on educational dance and simple forms of folk and square dance. Field and laboratory experiences required. (F)

DAE 3940 Supervised Teaching in Dance (3-9). Practical application in a clinical setting of knowledge acquired in the classroom. Hours may vary.

EDE 4936 Senior Seminar in Elementary Education (3). Provides discussion of classroom management, discipline, school-community relations, and school law required of undergraduate elementary education majors while student teaching. Prerequisites: Successful completion of all program requirements for student teaching. Corequisite: Blocks I through IV. (F,S)

EDE 4941 Field Experience: Elementary Education (0). Provides experience in observing and participating in elementary classrooms. Required of all elementary education majors in each term enrolled in a methods course. Repeatable. Corequisite: Any program course(s). May be repeated. (F,S,SS)

EDE 4943 Student Teaching Internship (9). Provides experience in an elementary school where the student assumes all teaching responsibilities for a minimum of ten weeks. Required of undergraduate elementary education majors as culmination of program. Prerequisites: Successful completion of all program requirements. Corequisite: EDE 4936. (F,S)

EDE 5267 Education of the Child in Urban Society (3). For students desiring advanced study in the schooling of inner-city pupils in K-6. Prerequisite: EDF 3321. (AR)

EDE 5905 Directed Study in Elementary Education (1-3). Provides for individual investigation in the area of elementary education. Permission of the instructor required. (F,S,SS)

EDE 5925 Special Topics in Elementary Education (3). Opportunities to develop skills and knowledge under the guidance of a specialist in a selected area. (SS)

EDF 1005 Introduction to Education (3). Introductory survey course designed to review education and teaching in America from multiple perspectives. Required of lower division education majors. Prerequisite to admission to teacher education programs. Field experience required. (F,S,SS)

EDF 3430 Measurement and Evaluation in the Classroom (3). Basic concept in educational measurement and evaluation in instruction, construction of teacher-made tests and other classroom assessments, portfolio and performance assessment, interpretation of standardized test scores.

EDF 3515 Philosophical and Historical Foundations of Education (3). Initial experience in professional and pedagogical studies for persons preparing for PK-12 classrooms as well as other school personnel. Special attention will be given to the exploration of, and the implications for, educational praxis. Field experience required. (F,S,SS)

EDF 4634 Cultural and Social Foundations of Education (3). Examines the cultural and social realities of teaching and learning in the U.S. Questions of class, race, ethnicity, gender and language are discussed in relation to effective school, teacher, and student performance. Prerequisites: EDF 3321 and EDF 3321L, EDF 3515, EDF 3004, and senior standing. Field experience required. (F,S,SS)

EDF 4780 The Teacher and the Law (3). Analysis of legal rights and responsibilities in the classroom, laws related to liability, contract, records, discipline, due process, handicapped, and schools. (AR)

EDF 5216 Effective Learning in the Classroom (3). A behavioral approach to effective teaching techniques including theoretical background, behavioral definitions, writing effective objectives, and evaluation of effective learning in the classroom. A field experience will be included. (AR)

EDF 5432 Measurement and Evaluation in Education (3). Competencies required for the design, construction or selection, and evaluation of measuring instruments. Prerequisite: EDF 5481. (F,S,SS)

EDF 5443 Measurement and Evaluation in the Classroom (3). Basic concept in educational measurement, utilizing measurements in instruction, construction of teacher-made tests and other classroom assessments, portfolio and performance assessment, interpretation of standardized test scores.

EDF 5481 Analysis and Application of Educational Research (3). Competencies required for the design, implementation, and evaluation of educational research, including: problem formulation and analysis; sample selection; instrument selection; formulation of research design and procedure; and data analysis. (F,S,SS)

EDF 5517 History of Education in the Changing Social and Philosophical Context of the American Republic (3). An historical examination of formal education in the changing social and philosophical context of the American republic. Special focus on school/society relationship. (AR)

EDF 5820 Latin American Education: An Historic and Contemporary Overview (3). Historical and current development of Latin American Education, and analysis of principal forces shaping this development. (AR)
EDF 5821 African Educational Systems: A Comparative Approach (3). Contemporary trends and issues of education in selected independent African countries, with historical analysis of colonial educational policies and practices. (AR)

EDF 5851 Socio/Cultural Conflict in Educational Change (3). Explores radical interpretations of the relationship of education to development in the Third World. Emphasis will be placed on the problem of values conflict and on the use of appropriate educational technologies. (AR)

EDF 5880 Intercultural Education: National and International Perspectives (3). Analysis of concepts and programs of intercultural and international education. Consideration of the role of education in fostering intercultural understanding both nationally and internationally. (S)

EDF 5881 Foundations of Bilingual Education (3). Fundamental theories and models of bilingual education, and information about the historical, philosophical, theoretical and legal background for bilingual multicultural programs in the United States. (AR)

EDF 5905 Directed Study in Education (1-3). The student plans and carries out an independent study project under direction of a faculty member. Topics are to directly relate to content of education courses. Independent study may not substitute for regular course offerings. Prerequisites: Written permission of the instructor and the approval of the instructor. (F,S,SS)

EDF 5941 Practicum: Urban Elementary Schools (3). Developing teacher competencies for the urban elementary schools. (AR)

EDF 5942 Multicultural Seminar and Practicum in Urban Education (3). Effective methods of educating immigrant and other minority children. (AR)

EDF 5955 Field Study Abroad (3-6). Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad. (SS)

EDF 5XXXL Extending Mentoring Strategies (1). Extends clinical supervision strategies to include emphasis on Florida Educator Accomplished Practices (FEAP), for classroom teachers already trained in Clinical Supervision.

EDF 1700 Introduction to Multicultural Education: Making Choices (3). Designed to introduce prospective teachers to the terms, concepts, elements, purposes, and objectives of multicultural education programs. Corequisite: EDF 2930. (AR)

EDG 2701 Teaching Diverse Populations (3). Introductory course designed to present the theories and realities of teaching diverse populations. Prerequisite: admission to teacher education programs. Field experience required. (F,S,SS)

EDG 3321 General Instructional Decision Making (3). Instructional decisions facing classroom teachers including HOTs, multiple intelligence, learning styles, technology, theory and models of instruction. Corequisite: EDG 3321L. Field experience required. (F,S,SS)

EDG 3321L General Instructional Decisionmaking Laboratory (3). Lab builds on theory and work class concepts through video simulations, feedback, field work, and interaction. Corequisite: EDG 3321. (F,S,SS)

EDG 4702 Educational Psychology of Multicultural Students (3). Introduction to principles and procedures utilized in teaching students from multicultural communities. Prerequisite: Associate degree equivalent and Educational Psychology. Corequisite: EDG 4703. (AR)

EDG 4703 Educational Psychology Supervised Field Experience with Multicultural Students (3). Demonstration of competencies learned throughout study program in educational psychology of multicultural students. Prerequisite: Associate degree of equivalent. (AR)

EDG 5325 Analysis of Teaching (3). Examination of the research on instruction in teaching, and the development of skills in the observation and analysis of teacher behavior. (AR)

EDG 5414 Instructional Strategies for the Classroom Teacher (3). Specifically designed for the Alternate Master's Program in Education. Focus is on generic teaching strategies suitable for teaching in South Florida. Special Emphasis will be placed on the development of competence and knowledge supportive of a reflective practitioner. Prerequisite: Permission of the instructor. Corequisite: EDG 5414L. Field experience required. (F,S,SS)

EDG 5414L Instructional Strategies Lab (3). Applies basic knowledge and skills necessary for teaching. Required of all in mod-masters programs. Corequisites: EDG 5414. (F,S,SS)

EDG 5417 Learning Styles Applications (3). Designed to help educators use learning styles information to change instruction and improve student achievement. Prerequisite: Tentative admission to Master's program. (AR)

EDG 5707 Cultural and Cross-Cultural Studies (3). Overview of immigration patterns in U.S., discussions of theories of ethnicity, acculturation, intercultural communication. Development of teaching strategies for multicultural classrooms. Multicultural issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F,S,SS)

EDG 5757 Curriculum Development for Bilingual Programs (3). Analysis of the Process of Curriculum Design and Application for Bilingual Multicultural Schooling, with an emphasis of the tools of inquiry within a context of cultural and linguistic compatibility. (AR)

EDG 5941 Practicum: Urban Secondary Schools (3). Developing teacher competencies in urban secondary schools. (AR)

EDP 3004 Educational Psychology (3). Application of principles for understanding individual differences, learning, adjustment, classroom environments, and assessment to instructional and educational issues. Challenges of diversity and teacher effectiveness are addressed. Field experience required. (F,S,SS)

EDP 3218 Classroom Management (3). Provides teachers understanding, skills, and dispositions for successful classroom management. Prerequisite: EDP 3004 and Corerequisite: EDP 3321.

EDP 5053 Educational Psychology: Principles and Applications (3). Theories, empirical bases and principles of development and individual differences, learning, learning environments, and assessment applied to
teaching at all educational levels. Challenges of diversity are emphasized. (F,SS)

EDP 5219 Classroom Management (3). Provides teachers understandings, skills, and dispositions for successful classroom management. Prerequisite: EDP 5053 and Corequisite: EDG 5414.

EDS 5051 Supervision and Professional Laboratory Experience (3). Content includes performance standards at the preservice teacher preparation level. Clinical Educator training, mentoring, and classroom strategies that result in improved student performance.

EEC 4005 Early Childhood Education Programs (3). Philosophy and theories of early childhood education programs; physical, emotional, social and cognitive development. Provides strategies for working with parents and evaluating programs. Corequisite: EEC 4941. (F,SS)

EEC 4204 Curriculum and Instruction in Early Childhood Education (3). Knowledge of curriculum and instructional skills in kindergarten and primary grades. Corequisites: EEC 4940, EEC 4941 or EEC 4942. (F,SS)

EEC 4266 Curriculum Programs—Infancy (3). Comprehensive knowledge of curricula and educational programs for infants and toddlers. Prerequisites: EDG 3321, EDG 3321L. Corequisites: EEC 4940, EEC 4941 or EEC 4942. (AR)

EEC 4267 Curriculum Programs—Preschooler (3). Comprehensive knowledge of curricula and educational programs for preschoolers. Prerequisites: EDG 3321, EDG 3321L. Corequisites: EEC 4940, EEC 4941 or EEC 4942. (AR)

EEC 4301 Trends in Early Childhood Education (3). Knowledge of critical issues; skill in assessing programs; application of child development principles to study of young children. Prerequisites: EDG 3321, EDG 3321L. Corequisite: EEC 4940, EEC 4941 or EEC 4942. (AR)

EEC 4524 Development and Administration of Early Childhood Programs (3). Knowledge and skills to prepare administrators of programs for young children. Prerequisite: Background in Early Childhood Education. (AR)

EEC 4704 The Education and Development of Young Children (3). Knowledge of infant, toddler and young child's physical, intellectual, social and emotional development and educational enhancement. Prerequisites: EDG 3321, EDG 3321L. Corequisites: EEC 4940, EEC 4941 or EEC 4942. (AR)

EEC 4941 Field Experience: Early Childhood (0). Required corequisite for all Block I-IV courses. Provides experience in observing, participating, and performing tasks in prekindergarten, kindergarten, and primary classrooms. Corequisite: Block I, II, III, or IV courses. May be repeated. (F,SS)

EEC 4943 Student Teaching (9). Required of undergraduate early childhood majors as culmination of program. Provides experience in a prekindergarten, kindergarten or in primary grades in an elementary school where student assumes all teaching responsibilities for a minimum of ten weeks. Corequisite: EDF 4634. Prerequisite: Successful completion of all program requirements. (F,S)

EEC 4940 Directed Study in Early Childhood Education (1-3). Individual investigation in the area of preschool and early childhood education. Permission of the instructor required. (F,SS)

EEC 5950 Directed Study (1-3). Individual investigation in the area of preschool and early childhood education. Permission of the instructor required. (F,SS)

EEC 5925 Special Topics in Early Childhood Education (3). Opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields in preschool and early childhood education. (AR)

EDD 4212 Behavioral Approaches to Learning and Classroom Management II (3). Advanced behavior management techniques to include application of theories, crisis intervention, legal issues, and counseling skills. Prerequisites: EED 2010, 3202, SPA 3000, EED 3221, EED 4601. This course is taken as part of the Senior Block. (F)

EDD 4243 Strategies for Teaching Students with Emotional Handicaps (3). Instructional strategies and specialized approaches for teaching emotionally handicapped. Must be taken concurrently with EED 4244, EED 4212, and EEX 4810 as 'the senior block and requires extensive field work. Prerequisite: All junior-level courses. Corequisites: EED 4212. EED 4244. EED 4810. (F,SS)

EDD 4244 Curriculum for Teaching Students with Emotional Handicaps (3). Concepts and skills using various curricular models designed for students with emotional handicaps. Must be taken concurrently with EED 4244 and EED 4212 as the Senior Block. Prerequisites: All junior level courses. (F)

EDD 5225 Strategies for Students with Emotional Handicaps (3). Instructional strategies and specialized approaches for teaching students with emotional handicaps. Must be taken concurrently with ELD 5225 and EMD 5215 as the graduate block. Prerequisites: EED 5414, EDG 5414L, EEX 6227, EEX 6051. Extensive field work required. (F,S)

EEF 3012 Educational Needs of Students with Exceptionalities (3). Significant concepts in relation to the educational needs of students with exceptionalities. Field experience required. (F,SS)

EEF 3202 Personal Foundations and Transitional Services for Individuals with Disabilities (3). Biological conditions affecting learning and their personal and social consequences including employability and transitional skills for adulthood. Field experience required. (F,SS)

EEF 3221 Assessment of Students with Exceptionalities (3). Basic assessment concepts and application to appropriate test selection, administration, scoring, and interpretation. Informal and formal techniques employed for purposes of gathering data for instructional planning. Prerequisites: EEX 3012, EED 3202. Lab fee required. (F,SS)

EEF 3243 Instructional and Assistive Technology in Special Education (3). Provides teachers of students with disabilities instructional and assistive technology skills that enhance student learning and increase access to the general education curriculum. Prerequisite: EEX 3012.

EEF 4050 Nature and Needs of Students with Mild Disabilities (3). History, etiology, characteristics, assessment and treatment of students with mild retardation, emotional handicaps and learning disabilities. Emphasis on theory, research and concepts related to
All program courses. Corequisites: EEX 4861 and EEX 6862. (F,S)
EEX 4940 Field Experience: Special Education (0). Field based course required of all special education majors. Must be successfully completed before graduating from the program. Students must register for a section of this course with each of the following method courses: RED 4150, LAE 4314, and MAE 4310. Repeatable. Corequisites RED 4150, LAE 4314, and MAE 4310. (F,S,SS)
EEX 5060 Nature and Needs of Students with Mild Disabilities (3). Curriculum models, approaches and significant concepts and skills needed for educational planning and programming for students with mild disabilities. Prerequisites: EEX 5481, EEX 6912. (S)
EEX 5282 Introduction to Audiology and Auditory Training for Students Who are Deaf and Hard of Hearing (3). The purpose of this course is to provide the opportunity to study the physical dimensions of sound, the psychoacoustic aspects of sound, and the relationship between these. The etiologies, characteristics, and the diagnostic evaluation, treatment and rehabilitation associated will be discussed. Prerequisites: EHD 5110 and EHD 5344.
EEX 5608 Behavioral Approaches to Learning and Classroom Management (3). Application of behavioral principles to children and youth in educational and community settings. Required for special education modified masters' and out-of-field certification majors. Prerequisite: EEX 6051. (F)
EEX 5766 Instructional and Assistive Technology in Special Education (3). Provides teachers of students with disabilities instructional and assistive technology skills that enhance student learning and increase access to the general education curriculum. Prerequisite: EEX 6051.
EEX 5771 Personal Foundations and Transitional Services for Individuals with Disabilities (3). Explores personal living skills, employability and transitional skills for adult-hood in relation to persons with mental, sensory and physical disabilities. (SS)
EEX 5841 Graduate Practicum in Special Education (1). The Graduate Practicum in Special Education provides opportunities for, intensive and integrated teaching experiences in the classroom under the close supervision of master teachers and university supervisors. Prerequisite: Completion of professional studies and core courses. Corequisites: EED 5225, ELD 5235, EMR 5215.
EGI 5051 Nature and Needs of the Gifted (3). Identification and placement procedures, history of the field, and psychological factors affecting development of the gifted-talented. (F)
EGI 5232 Educational Procedures and Curriculum for Gifted (3). Basic curriculum models in education of the gifted. Relation of models to planning, implementation in traditional classrooms, resource rooms, and special classes. (S)
EHD 5110 Nature and Needs of Students Who are Deaf and Hard of Hearing (3). Identification and placement procedures, history of the field, and psychological factors affecting the development of students who are deaf and hard of hearing.
EHD 5246 Teaching Reading to Students Who are Deaf and Hard of Hearing (3). Knowledge and skills in teaching reading to students who are deaf or hard of hearing. Techniques and strategies in the primary grades, intermediate grades and content areas will be discussed as well as the exploration, creation and evaluation of basic reading materials. Prerequisites: EHD 5110 and EHD 5247.
EHD 5247 Teaching Language and Speech to Students Who are Deaf and Hard of Hearing (3). Historic approaches and current methods for teaching language and speech; knowledge of language and speech structures and principles needed by students who are deaf and hard of hearing; and an understanding of the development of language and speech in students who are deaf. Prerequisite: EHD 5110.
EHD 5341 Curriculum and Instruction of Students Who are Deaf and Hard of Hearing (3). Students will learn techniques for teaching learners who are deaf or hard of hearing including adaptations for instruction in content areas, multicultural instruction, development and implementation of IEPs. Prerequisites: EHD 5110, EHD 5247, and EHD 5402.
EDH 5344 Anatomy and Physiology for Teachers of Students Who are Deaf and Hard of Hearing (3). Exploration and study of the anatomy and physiology of all aspects of communication process. These aspects include the respiratory, phonatory, articulatory, acoustic, auditory, and neurologic systems. Prerequisite: EDH 5110.

EIA 5905 Directed Study in Technology Education (1-3). Identification, research, and reporting on problems of interest to the student in technology education. Subject to approval of program advisor. (F.S.SS)

EIA 5925L Special Topics in Technology Education (3). Selected topics related to instructional and technical areas. (F)

ELD 4230 Curriculum for Teaching Students with Learning Disabilities (3). Designed to familiarize students with the terminology, characteristics, curriculum models, specialized curriculum, and instructional materials for students with learning disabilities. Field experiences required. Must be taken concurrently with Senior Block with ELD 4240 and EED 4212. Prerequisites: All junior level courses. (F)

ELD 4240 Strategies for Teaching Students with Learning Disabilities (3). Instructional strategies and specialized approaches to teaching students with learning disabilities. Must be taken concurrently with ELD 4230, EED 4212, and EEX 4810 as the senior block, and requires extensive field work. Prerequisite: All junior level courses. (F.S)

ELD 5235 Strategies in Teaching Students with Learning Disabilities (3). Instructional strategies and approaches for teaching students with learning disabilities. Must be taken concurrently with EED 5225 and EMR 5215 as the Graduate Block. Extensive field work is required. Prerequisites: EGD 5414 and Lab, EEX 6051, EEX 6227. (S)

EME 2040 Introduction to Educational Technology (3). Introduction to the use of educational technology. Examination of productivity tools, interactive multimedia, communications, educational software, instructional applications and ethical, legal, social, and professional issues.

EME 3402 Computers for Teachers (3). An introductory course focusing on instructional uses of computers in pre-college education. Designed to provide skills in using computers as a classroom tool. (F.S.SS)

EME 4103 Production and Use of Audio/Visual Media (3). Knowledge and skill in selecting and producing audio-visual media. Emphasis is placed on student production of audio and visual materials and equipment use. (AR)


EME 5403 Introduction to Instructional Delivery Systems (3). A study of the rapidly expanding electronic media technology and its impact on instructional delivery. Prerequisite: EME 3402 or EME 6405. (AR)

EME 5602 Multimedia in the Classroom (3). Use videodisc and compact disc formats; hypermedia; high resolution still images and graphics; audio-program material and text to improve the quality of teaching and student learning. Prerequisites: EME 3402, EME 6405, or equivalent. Corequisite: Basic knowledge of McIntosh environment. (AR)

EME 5945 Special Topics Computer Education (1-3). Offers an opportunity for teachers and trainers to participate in activities using specific computer applications. (AR)

EMR 4221 Curriculum for Teaching Students with Mental Retardation (3). Significant concepts and skills needed for educational planning, programming and placement decisions for students with mental retardation during school years. Field experiences required. Must be taken concurrently in Senior Block with EMR 4362 and EED 4212. Prerequisites: All junior level courses. (F)

EMR 4362 Strategies for Teaching Students with Mental Retardation (3). Familiarizes students with the instructional strategies and specialized approaches for teaching the mentally retarded. Must be taken concurrently with EMR 4221, EED 4212, and EEX 4810, as the Senior Block. Requires extensive field work. Prerequisite: All junior-level courses. (F.S.SS)

EMR 5215 Strategies for Teaching Students with Mental Retardation (3). Familiarizes students with instructional strategies and specialized approaches for teaching students with mental retardation. Must be taken concurrently with EED 5225 and ELD 5235 as the Graduate Block. Requires extensive field work. Prerequisites: EGD 5414, EGD 5414L, EEX 6051 and EEX 6227. (S)

EVT 3065 Foundations of Vocational Education (3). History of vocational legislation, principles and practices on the national, state, and local levels. (SS)

EVT 3161 Instructional Materials in Vocational Industrial Education (3). Evaluation of existing instructional materials and the planning and development of individualized instructional materials. (S)

EVT 3165C Course Planning (3). Knowledge of work analysis, planning, and organizing of vocational content for instruction. Prerequisite: EGD 3321. (S)

EVT 3367 Testing and Measurements in Vocational Education Subjects (3). Knowledge and skill in developing cognitive, effective and performance standards, tests, and measurements in vocational laboratory settings. Prerequisite: EVT 3165. (SS)

EVT 3815C Vocational Education Laboratory Management and Safety (3). Knowledge and skill in analyzing, planning, organizing and controlling laboratory environments and students' safe learning activities. (F)

EVT 4164 Technical Applications in Occupational Areas (3). The incorporation of new technical knowledge and skills of an occupational area into existing vocational education courses of study. Prerequisite: EVT 4946. (F)

EVT 4280 Occupational Safety and Health (OSHA) (3). Knowledge of the history, implications, and applications of the Occupational Safety and Health Act of 1970. For vocational and technical teachers, industrial employees, and management personnel. (AR)

EVT 4310 Planning and Operating HOE Programs (3). An intermediate course that develops an understanding of health occupation education as well as skills and knowledge needed by health care professionals to plan and develop health occupations programs.
EVT 4311 Special Teaching Lab in HOE Programs (3). An intermediate course that develops knowledge of institutional structure, policies and roles of school personnel combined with field and actual teaching experiences. (AR)

EVT 4312 Instructional Strategies and Evaluation in HOE Programs (3). An intermediate course that focuses on the development of skills and knowledge needed to analyze, plan, develop, execute and evaluate classroom and laboratory teaching and learning activities in health occupations education. Approved for "special methods of teaching health occupations education." Prerequisite EVT 3165. (AR)

EVT 4351 Teaching Limited English Proficient Students in Vocational Education (3). Knowledge of the history, principles, and practices, as well as skill in analyzing, planning, developing, executing, and evaluating classroom and laboratory teaching and learning activities for limited English proficient students. Meets META requirement. (F)

EVT 4365 Instructional Strategies and Evaluation in Vocational and Technical Education (3). Knowledge and skill in analyzing, planning, developing, executing and evaluation classroom and laboratory teaching and learning activities. For non-degree certification only. (AR)

EVT 4502 Introduction to Vocational Special Needs Education (3). Knowledge of historical developments, legislation, instructional strategies, and program alternatives required to instruct special needs students in vocationally related environments. (S)

EVT 4668 Emerging Emphasis in Career Education (3). A knowledge of current trends and issues in reference to developing and integrating career education into current elementary and secondary educational programs. (AR)

EVT 4905 Directed Study in Vocational/Technical Education (1-3). Identification, research, and reporting on a special problem of interest to the student. Subject to approval of program advisor. (F,S,SS)

EVT 4920 Group Training and Development (3). Knowledge and skills necessary to design, prepare, conduct, and evaluate group training and development programs. Prerequisite: Permission of the instructor. (S, alt)

EVT 4931 Special Topics (1-4). Knowledge of recent developments related to problems, practices, programs, and methodologies in organizational setting. Prerequisite: Permission of the instructor. (AR)

EVT 4940 Professional Problems in Vocational and Technical Education (3). Knowledge of institutional structure, organization, policies, and roles of school personnel, with actual teaching experience in area of specialization. (S)

EVT 4941 Student Teaching: Vocational Industrial Education and Technical Education (9). Utilization of instructional knowledge, attitudes, and skills in a variety of instructional situations in the vocational educational setting. Prerequisites: EVT 4940, EVT 4311 for Health Education majors. (F,S)

EVT 4942C Internship: Training and Development (3). Knowledge and skills in training and development in non-public school settings. Prerequisites: Admission to Organizational Training Certificate Program and permission of the instructor. (F,S,SS)

EVT 4946 Field Experience: Technical Updating (3). The identification and acquisition of current technical knowledge and skills in an occupational area. Prerequisite: Vocational certification. (F,S,SS)

EVT 4949 Occupational Experiences (3-9). Occupational skill developed via field based work-experience in industry, business, or a government agency in the occupation in which the student is preparing to teach. (F,S,SS)

EVT 4990C Credit by Examination (3-9). Technical knowledge and skills in an occupational area such as trade, industry, health and technology, as certified by recognized professional examinations such as the National Occupational Competency Test. Credits cannot be used in lieu of upper division professional program courses. (AR)

EVT 5078 Technical Education in American Society (3). Knowledge of the basic role and current status of technical education in an industrial democracy. Designed for students interested in post-secondary education. (S)

EVT 5168 Curriculum Development in Vocational Education (3). Knowledge and skill in analyzing, planning, and developing curriculum in an area of specialization. (S)

EVT 5255 Cooperative Vocational Education Programs (3). Knowledge and skill in the basic philosophy, principles, processes, and procedures of the cooperative method in vocational and technical education. (F)

EVT 5265 Supervision and Coordination of Vocational Education Programs (3). Knowledge and skill in the supervision of personnel and the coordination of work to achieve institutional goals. (F)

EVT 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education (3). First in series of graduate courses designed to prepare qualified health professionals holding bachelor's degrees with professional education skills necessary to become competent teachers. Approved for "special methods of teaching health occupations education." (AR)

EVT 5317 Occupational Analyses in Health Occupations and Nursing Education (3). Provides opportunity to expand/update the knowledge base of health care system combining experiences in health care delivery system with curriculum updating. Professional licensure and liability insurance required. May be repeated. (AR)

EVT 5369 Vocational Educational Media (3). Knowledge and skill in selecting, developing, and utilizing vocational instructional media forms to communicate or demonstrate concepts. (S)

EVT 5650 Trends and Issues in Vocational Education (3). Knowledge of the basic philosophical and curricular trends and issues in vocational-technical education at the international, national, state, and local levels. (F)

EVT 5664 Community Relations and Resources for Vocational Education (3). Knowledge and skill in developing and utilizing community resources and establishing public relations procedures and practices to implement vocational education programs. (SS)

EVT 5695 International Comparative Vocational Education (3). Knowledge in comparison of vocation-
Education in the United States in terms of purposes, systems, and problems with those of selected foreign countries. (S)

EVT 5769 Evaluation in Vocational and Technical Education (3). Knowledge and skill in the development of criteria, tests, measurements, and analysis of data to assess teaching, learning, and objectives. (F)

EVT 5905 Directed Study in Vocational/Technical Education (1-3). Identification, research, and reporting on a special problem of interest to the student. Subject to approval of program advisor. (F,S,SS)

EVT 5925 Special Topics in Vocational Education (1-6). Selected competencies related to instructional and technical areas. (AR)

EVT 5927 Special Topics in Health Occupations Education (1-3). Selected topics related to instructional and technical areas. (AR)

FAD 3253 Parenting (3). Overview of changing concepts of parenthood and childhood. Explores contemporary issues concerning parenting with emphasis on maximizing human potential of parents and children. Open to non-majors. Recommended prerequisite: DEP 2001. (AR)

FAD 4340/5341 Family Development: Adulthood and Aging (3). Extension of the study of developmental patterns with emphasis on physical, intellectual, social, and emotional influences with particular emphasis on the family and/or family substitute. Graduate students will have additional requirements. (AR)

FAD 5260 Family Development (3). Dynamics of family interaction and structure, including analysis of socio-economic and cultural influences, crisis-producing situations, and current issues and trends affecting the family unit. (AR)

FAD 5450 Human Sexuality (3). A cognitive overview of human sexuality. Main emphasis is on the affective dimension—an exploration of attitudes and values related to sexuality. (AR)

FLE 4151 Bilingual School Curriculum and Organization (3). Development of a theoretical understanding of the nature of a bilingualism, a rationale for bilingual education, and a set of principles and skills for organizing, bilingual-bicultural curriculum experiences in the elementary school. Prerequisite: EDG 3321. (AR)

FLE 4314 Methods of Teaching Foreign Languages in the Elementary School (3). Development of instructional skills, techniques and strategies for teaching modern languages in the elementary school. (F)

FLE 4375 Methods of Teaching Modern Language at the Secondary Level (3). Development of instructional skills, techniques, and strategies for teaching modern languages in the junior and senior high school. Prerequisite: EDG 3321. Field experience required. Minimum prerequisite or corequisite of 14 hours in subject matter specialization. (F)

FLE 4872 Teaching Spanish as a Second Language (3). Development of instructional skills, techniques, and strategies for teaching Spanish to non-native speakers of Spanish in the elementary school. Prerequisites: EDG 3321 and Spanish proficiency. (AR)

FLE 4871 Teaching Spanish to Speakers of Spanish (3). Development of understandings and teaching skills needed in presenting integrated non-official language arts programs which would consider factors of languages and cultures in contrast. Prerequisites: EDG 3321 and Spanish proficiency. (AR)

FLE 4942 Student Teaching (9). Supervised teaching in a junior or senior high school. Prerequisites: EDG 3321, RED 4325, appropriate Special Teaching Laboratory, appropriate number of hours in subject matter specialization, and admission to the program. (S)

FLE 5895 Bilingual Education Teaching Methodologies (3). Examination of various approaches to bilingual education, including specific school and classroom organizations. Development of specific instructional strategies for bilingual students. Issues in elementary, secondary, adult, vocational, and special education will also be addressed. (AR)

FLE 5908 Directed Study in Foreign Language Education (1-3)(ARR). The student plans and carries out an independent study project under direction of a faculty member. Prerequisite: Consent of instructor. (F,S,SS)

FLE 5945 Supervised Teaching: Modern Languages (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (S)

HIE 3302 Curriculum Development in Vocational Home Economics (3). Development, adaptation, and evaluation of curriculum for vocational home economics content in a variety of educational settings. Subject to approval of the instructor. (F)

HIE 4104 Instruction in Vocational Home Economics (3). Application of educational principles, practices, and techniques to the teaching of vocational home economics in varied educational settings. Subject to approval of the instructor. (F)

HIE 4941 Student Teaching in Home Economics (9). Utilization of instructional knowledge, attitudes, and skills in vocational home economics instructional settings. Prerequisites: HIE 3302, HIE 4104, HIE 4944. (S)

HIE 4944 Special Teaching Laboratory: Home Economics (3). Acquisition of knowledge of educational institutions, and utilization of planning tools and teaching skills within areas of home economics in selected educational settings. Prerequisites: HIE 3302, HIE 4104. (S)

HIE 5335 Trends and Issues in Home Economics Education (3). Analysis of current social, economic, and educational trends and issues impacting upon home economics education and their implications for current and evolving practices. (F)

HIE 5360 Teaching Child Development (3). Designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HIE 5361 Teaching Consumer Education and Family Economics (3). Designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HIE 5362 Teaching Clothing and Textiles (3). Designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)
HME 5363 Teaching Family Life Education (3). Designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HME 5364 Teaching Housing and Home Furnishings (3). Designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HME 5365 Teaching Food and Nutrition (3). Designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HME 5905 Directed Study in Home Economics Education (1-3). Designed for advanced students in home economics education who wish to pursue specialized topics. Requires prior approval of instructor. (F,S)

HME 5927 Special Topics in Home Economics Education (1-3). Development, organization, instruction, evaluation, and administration of programs related to selected aspects of home economics education. (S)

HES 5319 Teaching Health Education (4). Students will select various modern techniques and tools for teaching health education in elementary and secondary school settings. (AR)

HHD 4420 Home Furnishings and Equipment (4). Principles involved in the construction, selection, operation, and care of furnishings and equipment and their relationship to their environmental use. (AR)

HLP 3013 Teaching Elementary Health and Physical Education (3). Understandings, skills and dispositions needed to teach health and physical education to diverse populations in the preschool and elementary grades. Part of Block III. Prerequisites: Blocks 1 and II. Corequisite: EDE 4941. Field experience required. (F,SS)

HME 4230 Management of Personal and Family Resources (3). Application of management principles to personal and family decisions including human and non-human resources. Opportunity for community observation of management decisions made by persons of various ethnic groups and/or life styles and an analysis of the effect of these decisions on family relationships and personal success. (AR)

HME 5225 Problems of Home Management in Contemporary Society (3). Influence of diversified cultural impact on management life styles, with emphasis on problems of management resources. Discussion of problems related to single-parent homes, retirement, poverty, death, working parents, migrant families, and other human situations. Prerequisites: COA 2410, HME 4230, or permission of the instructor. (AR)

HSC 5455 Basic Driver Education I (3). Knowledge of the highway transportation system, rules and regulations. For Driver Education Certification endorsement. (AR)

HSC 5456 Advanced Driver Education II (3). Advanced skills for the teaching of driver’s education. Prerequisite: HSC 5455. (AR)

HSC 5465 Administration and Supervision of Driver Safety Education III (3). Competencies for teacher preparation and improvement in driver and traffic safety education. Prerequisites: HSC 5455 and HSC 5456. (AR)

LAEE 3334 Classroom Management in the Middle/Secondary English Classrooms (1). Designed to provide students with the theoretical and practical principles to deal with the problems of classroom management within the concept of goals, materials, and teaching strategies that form the English language arts. Prerequisites: EDG 3321 and LAEE 4335. (F,S)

LAEE 4335 Special Teaching Laboratory English (3). Development of instructional skills, techniques, and strategies for teaching English in the middle school and senior high school. Prerequisite: EDG 3321. Field experience required. Prerequisite of 21 hours required in English courses beyond lower division English prerequisites for this program. Requires 2-4 hours/week field work. (F)

LAEE 4463 Multicultural Perspectives in Teaching Language and Literature for Young Adolescents (3). Designed to provide students with a theoretical and practical basis for teaching and reading multicultural literature in the secondary school. (SS)

LAEE 4464 Experiencing Adolescent Literature in the Middle School and Senior High School (3). An examination of the most familiar types of literature found in the middle and secondary school English curriculum today; and the development of strategies for organizing and providing a variety of literary experiences of students who differ in intellectual abilities and literary tastes. (F,SS)

LAEE 4851 Teaching English as a Second Language (3). Development of instructional skills, techniques, and strategies for teaching English as a second language in the elementary school. Prerequisites: EDG 3321 and English proficiency. (AR)

LAEE 4942 Student Teaching (9). Supervised teaching in a middle school or senior high school. Prerequisites: EDG 3321, RED 4325, appropriate Special Teaching Laboratory, appropriate number of hours in subject matter specialization, and admission to the program. (S)

LAEE 4464 Multicultural Perspectives in Teaching Language in Literature for Young Adults (3). Designed to provide students with a theoretical and practical basis for teaching and reading multicultural literature in the secondary school. (F,S)

LAEE 5355 Literacy Instruction in the Intermediate Grades (3). Understandings, skills, and dispositions needed to teach reading and writing to students who have advanced beyond beginning stages. Required for students in VE Modified Masters Program. Prerequisites: RED 5152 or equivalent. Corequisite: EEX 4940.

LAEE 5415 Children’s Literature (3). Knowledge and skill in critical analysis of purposes, strategies for teaching and evaluation of children’s literature. Prerequisites: RED 4150 and LAEE 4314 or equivalent. (AR)

LAEE 5426 Multicultural Perspectives in Teaching Language and Literature for Young Adolescents (3). Designed to provide students with a theoretical and practical basis for teaching and reading multicultural literature in the secondary school. Prerequisite: admission into the program. (F,S)

LAEE 5465 Adolescent Literature in Middle/Secondary Schools (3). Examines a wide variety of adolescent and young adult literature. Assists students in the development of instructional strategies for organizing literary experi-
LEI 3542 Principles of Parks, Recreation and Sport Management (3). An exploration of the field of recreation, parks and sport, including career areas, management responsibilities and supervisory levels and principles and theory. (F)

LEI 3624 Turf Grass Management (3). A practical approach to the care and maintenance of special grasses such as those found on golf courses and other recreational facilities. (AR)

LEI 3630 Care, Maintenance and Design (3). A study of procedures for maintaining outdoor facilities. Students will be expected to display competence in proper maintenance of areas normally found in parks and recreation centers. (F)

LEI 3703 Introduction to Therapeutic Recreation (3). History, philosophy and current principles of therapeutic recreation processes and application. Emphasis will be given to role of therapeutic recreation services. (F)

LEI 3707 Inclusive Recreation Services (3). Course is designed to provide Parks and Recreation Management majors with opportunities to enhance knowledge of the characteristics and leisure needs of individuals with disabilities and knowledge of accessibilities issues.

LEI 3724 Therapeutic Recreation and Facilities Techniques (3). Designed to provide "hands on" experience, as well as in-depth examination of medical aspects of disabling conditions in activity interventions for individuals with physical disabilities in a diversity of activity interventions. Prerequisite: LEI 3703. (F)

LEI 3860C Computer Applications for Recreation and Sport Management (3). Introduction to computer applications useful in Recreation and Sport Management. Includes standard office, internet, and specialized recreation and sport management software.

LEI 4268C Adventure Education (3). Teaches the philosophy, history, application of adventure education; features high and low ropes activities, problem solving, leadership, team-building development, adventure-based curriculum and resources.

LEI 4438 Recreational Sports Programming (3). Principles and practices in recreational sports programming for universities and institutions including intramurals, recreation facilities, budgets, rules, tournaments, liability, and special programs.

LEI 4543 Recreation and Sports Facility Management (3). This course is designed to provide the student with an overview of the concepts and practices involved in managing recreation and sports facilities.

LEI 4573 Leisure Services Marketing (3). Application of service marketing principles and practices to both the public and private leisure service industry to improve both effectiveness and efficiency of operations. (S)

LEI 4590 Seminar in Parks and Recreation Sport Management (3). A discussion of current problems, issues and trends in parks, and sport recreation management, which will help the student develop those competencies necessary to deal with everyday aspects of particular programs. (F)

LEI 4705 Programming for Therapeutic Recreation (3). Principles and practices in planning and implementing programs in therapeutic recreation settings. Special emphasis will be placed on a systematic approach through problem-solving techniques. (S)

LEI 4711 Client Assessment, Evaluation and Documentation in Therapeutic Recreation (3). An overview of the theory, concepts and techniques used in client assessment, evaluation and documentation for therapeutic recreation treatment. (S)


LEI 4813 Leisure Education and Facilitation Techniques (3). A focused survey of leisure education and counseling as applied in therapeutic recreation delivery systems. (F)

LEI 4842 Private and Commercial Recreation & Sports Management (3). Identification, development, operation and impact of profit-oriented recreation and sport-related enterprises. (AR)

LEI 4931 Special Topics: Leisure Service Management (1-3). Analyzes and utilizes recent developments
related to problems, practices, contemporary issues, practices and methodologies in Leisure Service Management. Permission of the instructor. (S,F)

LEI 4940 Internship I (9). An on-the-job training program designed to enable students to develop those competencies which can only be gained from practical experience. (SS,AR)

LEI 4941 Internship II (9). Advanced undergraduate supervised internship in a park and recreation or recreational therapy organizations. Prerequisites: LEI 4940 and permission of the instructor. (SS,AR)

LEI 5440 Program Development in Parks, Recreation and Sport (3). The development of specific programs in parks, recreation, and sports. (S)

LEI 5503 Liability and Law in Leisure, Recreation and Sports (3). A detailed analysis of legal issues relating to leisure service, delivery and sport management including legal foundations, legal liability, disabled services and current case analysis. (F,S)

LEI 5510 Program Administration in Parks, Recreation and Sport (3). A detailed analysis of administrative procedures and responsibilities in connection with parks, recreation and sport facilities and personnel. (F)

LEI 5595 Seminar in Parks, Recreation and Sport Management (3). A discussion of current problems, issues, and trends in administration of parks and recreation programs. (F)

LEI 5605 Philosophical and Social Bases of Parks and Recreation Planning (3). Concentration on major phases of pre-design, design, development, actualization of park and recreation facilities. Course will explore funding, budget, site selection, layout, and maintenance. (F)

LEI 5716 Program Planning in Therapeutic Recreation (3). Designed to prepare the student for the development of systematically designed therapeutic recreation service delivery programs from the viewpoint of the T.R. specialist and the T.R. administrator. (S)

LEI 5719 Client Assessment, Evaluation and Documentation in T.R. (3). Addresses client assessment, documentation and evaluation from the direct service perspective, administrative requirements, and health care regulatory agency demands. (S)

LEI 5907 Directed Study in Parks and Recreation Management (3). An opportunity for individuals interested in various aspects of park and recreation administration to work on their own under the close supervision of an advisor. Permission of the instructor is required. (F,S,SS)

MAE 3651 Learning Mathematics with Technology (3). Use innovative software and graphing calculators for students to experience learning mathematics with technology. Revisit topics of school mathematics with a problem solving approach. Corequisite: Calculus I. (F,S)

MAE 4310 Teaching Elementary Mathematics (3). Understandings, skills, and dispositions needed to teach mathematics as a mode of inquiry to diverse populations in the preschool and elementary grades. Part of Block III. Prerequisites: Block I, Block II, two college level algebra or higher level math courses. Corequisites: EEC 4941. Field experience required. (F,S,SS)

MAE 4320 Special Teaching Lab: Middle School Mathematics (3). This course is required in the baccalaureate program for those who plan to teach middle school mathematics. It provides the knowledge and skills for functioning in a mathematics classroom. Prerequisite: Senior standing, MAE 3651, MAC 3311, STA 3163, MAS 3105.

MAE 4333 Special Teaching Laboratory: Mathematics (4). Development of instructional skills, techniques, and strategies for teaching mathematics in the middle school and senior high school. Prerequisites: EDG 3321. Field experience required. Minimum prerequisite or corequisite of 24 hours in subject matter specialization, including COP 2210, MAS 3105, MAS 4213, MTG 3212, STA 3164, and approved electives; permission of the instructor required. (F)

MAE 4942 Student Teaching (9). Supervised teaching in a middle school or senior high school. Prerequisites: EDG 3321, appropriate Special Teaching Laboratory, appropriate number of hours in subject matter specialization, and admission to the program. (S)

MAE 5655 Computers in Mathematics Education (3). Examines the use of computers (microcomputers) in secondary school mathematics. Designing, evaluating, and using varied types of programs in mathematics classes. Learning to use computers to design mathematics curriculum. (F,S,SS)

MAE 5908 Directed Study in Mathematics Education (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,S)

MAE 5923 Special Topics in Elementary Math Education (3). Opportunities to produce and apply materials and strategies in math education in elementary. (AR)

MAE 5945 Supervised Teaching Mathematics Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite coursework in education and subject matter area. (S)

MHS 5340 Educational-Vocational Counseling (3). Concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and socio-psychological influences on career development. (SS)

MHS 5400 Counseling Skills and Techniques (3). Major theoretical concepts in counseling, competencies in relationship-building, interviewing, role-playing, simulation, and micro-counseling. (AR)

MHS 5460 Crisis Counseling and Intervention (3). Prevention and intervention strategies in crisis situations including child abuse and neglect, suicide, substance abuse, AIDS, and personal loss. (AR)

MUE 3210 Teaching Elementary Music (3). Knowledge and skills for the development and implementation of music experiences in the elementary curriculum for the elementary classroom teacher. Prerequisites: Block I, Block II, Block III. Corequisite: EDE 4941. Field experience required. (F,S,SS)

MUE 3340 Elementary School Teaching Methods (3). Development of instructional skills, techniques, and strategies for elementary school classroom music for the music teacher. Laboratory and field work required. (S)

MUE 4094 Middle & Secondary School Vocal & Instrumental (3).
Development of instructional skills and rehearsal technique, skills and strategies for teaching music in the middle school or senior high school. Laboratory and field work required. (F)

MUE 4940 Student Teaching in Music Education (9). Supervised teaching in an elementary and secondary school. Prerequisite: Admission to the program. (S)

MUE 5907 Directed Study in Music Education (1-3). Individual investigation in one or more areas of music education. (AR)

MUE 5928 Special Topics in Music (1-3). Applications of materials and techniques in music in a laboratory or field setting. (AR)

MUE 5948 Supervised Teaching: Music Education (6). Supervised teaching. Prerequisites: Admission to the Modified Masters Track Program and completion of all prerequisite courses. Work in education and the subject matter area. (S)

Students may only take three activity courses per semester and must check with an advisor to check if courses count toward graduation.

PEL 1441 Skills and Practice: Racquetball and Tennis (2). Designed to develop skills and knowledge of racquetball and tennis. Emphasis is on teaching methods of physical activities. This course is for Physical Education majors and open to non-majors. (S)

PEL 2321 Skills and Practice: Volleyball (2). Designed to develop skills and knowledge of volleyball. Emphasis is on teaching methods of physical activities. This course is for Physical Education majors and open to non-majors. (SS)

PEM 1104 Conditioning for Recreational Sports (1). Sports aerobics and other workout methods will be practiced to improve strength, flexibility, muscular endurance and skill level in various recreational sports. Sports participation will follow the training. Verify graduation with advisor. (F,SS)

PEM 1141 Aerobic Fitness (1). Provides students with the skills and knowledge necessary to achieve and maintain a desirable state of aerobic fitness. Verify graduation with advisor. (F,SS)

PEM 1404 Aikido (1). The study of the art of Aikido and redirecting forces to achieve their neutralization. An application of similar principles for self-defense.

PEM 1405 Judo Self Defense (1). Students will be taught physical and mental techniques to defend themselves from personal attack. This course is repeatable. Verify graduation credit with advisor. (F,S)

PEM 1441 Karate (1). Basic techniques and advanced applications of karate techniques will be taught. The class goal will be certification in rank levels to qualified students, beginners to advanced. This course is repeatable. Verify graduation credit with advisor. (F,S)

PEM 2101 Foundations of Fitness (3). Concepts related to the evaluation, development, and maintenance of fitness, including principles of training, weight control and stress reduction. Verify graduation credit with advisor. (F,S,SS)

PEM 2131 Weight Training (1). Exercise on various strength training equipment to improve muscular endurance, strength, and flexibility. Verify graduation credit with advisor. (F,S,SS)

PEM 4103 Advanced Personal Training (3). This class is designed to prepare students for the National Strength Professionals Association Certified Conditioning Specialist Examination. Prerequisite: PET 3351 or its equivalent.

PEM 4401 Comprehensive Analysis of Japanese Martial Arts (3). An indepth study of the evolution within the ideology and technology of the Japanese Martial Arts in the context of its origins, styles, organizations, and founders to its present role in society. Prerequisites: PET 3XXX. Corequisite: PEM 1XXX.

PEM 4407 Therapeutic Applications of Martial Arts (3). Provides an understanding of the therapeutic applications of Martial Arts for the enhancement of an individual’s well-being and pro-social behavior. Prerequisites: PET 4711 Teaching Martial Arts, PET 3XXX Introduction to Martial Arts, PEM 1405 Judo Self-Defense and PEM 1404 Aikido.

PEM 2132 Scuba Diving Lab (1). The lab enables divers to acquire and refine the skills needed to increase scuba proficiency. This lab is required for students taking Basic, Advanced, Rescue, or Leadership Scuba Diving. Repeatable. Verify graduation credit with advisor. Prerequisites: PEM 2136, PEM 3137, PEM 3138, or PEM 4135.

PEM 2136 Basic Scuba Diving (2). This course provides students with basic scuba knowledge and skills including diving physiology, underwater skills, safety, preparation and equipment care. Lab required. Verify graduation credit with advisor. Corequisite: PEM 2132.

PEM 2137 Advanced Scuba Diving (3). An advanced course for students with Basic Scuba training and certification. Includes advanced dive safety, underwater navigation, search and rescue techniques, etc. Lab required. Verify graduation credit with advisor. Prerequisite: PEM 2136.

PEM 2138 Scuba Rescue Diving (3). Provides skill and knowledge to prevent and manage diving risks, problems and emergencies. Includes search and rescue, first aid, CPR, oxygen administration. Lab required. Verify graduation credit with advisor. Prerequisites: PEM 3137 or permission of the instructor. Corequisite: PEM 2136L.

PEM 4135 Scuba Diving Leadership (3). Prepares advanced divers for professional roles as divemaster and assistant instructor. Requires teaching, supervision and trip planning. Lab required. Verify graduation credit with advisor. Prerequisites: PEM 3137, PEM 3138.

PEO 3012 Officializing Basketball (3). Students will examine the philosophies, mechanics and rules necessary for officiating basketball, from youth to intercollegiate levels.

PEO 4004 Principles and Practices of Coaching (3). Prepares students to examine the organization, philosophies, and skills necessary for coaching interscholastic sports in a diverse, educational environment. (SS)

PEO 4041 Games in the Elementary and Middle School (3). The study of the scope, structure, and sequence of games in Grades K-8. Emphasis on educational games and skill progressions for selected sports. Field experience required. (SS)

PEP 3205 Gymnastics in the Elementary and Middle School (3). The study of the scope, structure, and sequence of
the gymnastics program in grades K-8. Emphasis on educational gymnastics and simple formal gymnastics. (S)

PEP 4102 Applied Concepts of Fitness and Health (3). Content and methods for teaching activity/theory classes in which the primary emphasis is the development of fitness. Prerequisites: PET 3351 and EDG 3321. (S)

PEP 4111 Health/Fitness Instruction (3). Knowledge and skills to evaluate one's fitness level and to design exercise and health enhancement programs for healthy individuals. Prerequisite: PET 3351. (F)

PEP 4114 Exercise Specialist (3). Knowledge and skills necessary to prescribe and lead exercises for persons with medical limitations especially cardiovascular and related diseases. Prerequisites: PET 3351 and PET 4387. (S)

PEQ 2230 Beginning Sailing (1). Designed to develop skills and knowledge of sailing. Emphasis is on actual in water experiences and development of sailing as life time pursuit.

PEQ 2232 Advanced Sailing (1). Designed to further skills and knowledge of sailing. Emphasis is on actual in water experiences and development of sailing as life time pursuit.

PEQ 2250 Beginning Kayaking (1). Designed to develop skills and knowledge of kayaking. Emphasis is on actual in water experiences and development of kayaking as life time pursuit.

PEQ 3126 Adapted Aquatics (2). Develops competencies in adapted aquatic programs and services. May be used for adapted physical education endorsement. (AR)

PET 3020 Foundations of Physical Education (3). Examines the philosophical, historical, sociological and psychological foundations of physical education and sport. (Field experience required). (F)

PET 3310 Kinesiology (3). Students study the anatomical and mechanical principles of movement and apply this knowledge in the analysis of physical education and athletic sport activities. (Includes laboratory class periods.) Prerequisite: Anatomy. (F,S,SS)

PET 3325L Anatomy for the Exercise and Sport Science Lab (1). The structure of the human body will be studied using hands-on experiences in the small group setting using class assignments, figures, models and computer activities. Corequisite: PET 3XXX.

PET 3351 Exercise Physiology (3). Immediate physiological responses to exercise and the long-term adaptations that occur as a result of training. (F,S,SS)

PET 3351C Physiology for the Exercise and Sports Sciences (3). The human body will be studied using a body systems approach with emphasis on the function of the musculoskeletal, nervous, and cardiovascular systems. Prerequisites: PET 3990C. Corequisite: PET 3XXXL.

PET 3351L Physiology for the Exercise and Sport Science Lab (1). The function of the human body will be studied in a small group setting using class assignments, figures, models, and physiologic measurements. Prerequisites: PET 3990C and PET 3XXXL.

PET 3408 Introduction to Martial Arts (3). This course provides an understanding of the differences-similarities of martial arts. The student will have an understanding of its country of origin and its cultural influences on modern society. Corequisite: PEM 1405 and PEM 1XXX.

PET 3640 Adapted Physical Education (3). Knowledge of scientific factors and develop and implement physical education programs for special populations. Laboratory and Field Experience required. (SS)

PET 3730 Physical Education in the Middle School (3). The study of the scope, structure, and sequence of the middle school physical education curriculum. Emphasis on teaching strategies, and curriculum development. Field experience required. (S)

PET 3XXXC Anatomy for the Exercise and Sport Science (3). The human body will be studied using a body systems approach with emphasis on the organization and structure of the musculoskeletal, nervous, and cardiovascular systems. Corequisite: PET 3XXXL.

PET 4035 Motor Learning and Development (4). Examination of the developmental aspects of movement and the factors influencing the acquisition and performance of motor skills. (F)

PET 4214 Sport Psychology (3). Concepts related to the psychological aspects surrounding sport performance will be discussed. Required course in the Undergraduate Sport Management Track. Prerequisite: Upper division status. (S)

PET 4251 Sociology of Sport (3). Basic principles of the sociological bases of sport will be presented and discussed. Required course in the Undergraduate Sport Management track. (SS)

PET 4383 Evaluation in Exercise Physiology (3). Prepares students to utilize and select or construct appropriate instruments for the assessment of fitness. Prerequisite: PET 3351. (F)

PET 4384 Exercise Test Technology (3). Knowledge and skills required to conduct an ECG monitored graded exercise test. Prerequisite: PET 3351. (F)

PET 4389 Advanced Concepts in Strength and Conditioning (3). The course is designed to prepare students for the NSCA's Certified Strength and Conditioning Specialist examination.

PET 4401 Administration of Physical Education & Sport (3). An analysis of the organizational and administraty aspects of interscholastic & intercollegiate physical education and interscholastic & intercollegiate sport programs. (F)

PET 4442 Physical Education in the Secondary School (3). Methods, philosophy, and curriculum for physical education in the urban, culturally diverse secondary school. Field experiences required in addition to class work. EDG 3321 and EDG 3321L. (F)

PET 4510 Evaluation in Physical Education (3). Develops student competencies in motor skill testing, grading, and analysis of written and psychomotor test scores necessary for successful teaching in physical education. (SS)

PET 4601 Comprehensive Conditioning of Elite Athletes (3). The course prepares a student to develop a comprehensive conditioning program including metabolic, speed, flexibility, plyometric and resistance training. Current practices of strength and
conditioning coaches will be examined. Prerequisite: PET 3351.

PET 4621 Senior Seminar in Athletic Training (3). A culmination of the nine required courses for NATA certification, with experiences in written communication, written multiple choice, and practical examinations. Prerequisites: PET 4622, PET 4622L, PET 4623, PET 4623L, PET 4632, PET 4632L.

PET 4622 Athletic Injuries (3). Students will demonstrate knowledge of the proper care and prevention of athletic injuries through the application of acceptable training techniques. Prerequisites: PET 4622, (F,S,SS)

PET 4622L Athletic Injuries Lab (1). The practical skill of athletic injury taping for prevention and management of athletic injuries. Prerequisite: PET 4622. (F,S,SS)

PET 4623 Assessment of Athletic Injuries I – LE (3). Students will demonstrate knowledge of special tests used for the evaluation of athletic injuries to the lower extremity. Designed to prepare the student for certification through the National Athletic Trainers Association. Prerequisite: Anatomy and PET 4622. (F)

PET 4623L Assessment of Athletic Injuries Lab I – LE (1). A practical approach to the evaluation of athletic injuries to the lower extremity and spine. Prerequisite: PET 4622. Corequisite: PET 4623. (F)

PET 4624C Emergency Medicine for Athletic Trainers (3). A practical approach to the care and management of medical emergencies that may occur in the field of athletic training. Advanced first aid and CPR in emphasized. Prerequisites: PET 4622, PET 4623.

PET 4629 Athletic Training Symposium (3). Provides insight and knowledge about various medical specialties and practitioners in the field of Sports medicine that are related to athletic training and the care of the injured or ill athlete. Prerequisite: PET 4622, PET 4623.

PET 4630 Therapeutic Modalities for the Injured Athlete (3). The theory behind the use of therapeutic modalities for the care and treatment of the injured athlete. Prerequisites: PET 4622, PET 4622L.

PET 4632 Therapeutic Exercise for the Injured Athlete (3). The theory behind the use of therapeutic exercise for the care and treatment of injured athletes. Prerequisites: PET 4622. Corequisite: PET 4632L. (F,S)

PET 4632L Therapeutic Exercise for the Injured Athlete Lab. (1). Practical, hands on experience in utilizing the proper technique and understanding the reason why the use of therapeutic exercises are used for the care and treatment of the injured athlete. Prerequisites: PET 4622. Corequisite: PET 4632L. (F,S)

PET 4633 Assessment of Athletic Injuries II – Upper Extremity (3). Students will demonstrate knowledge of special tests used for the evaluation of athletic injuries to the upper extremity and spine. Designed to prepare the students for certification through the National Athletic Trainers Association. Prerequisite: Anatomy and PET 4622 and Corequisite: Assessment of Athletic Injuries Lab – UE.


PET 4660 Administrative Concerns in Athletic Training (3). The student will gain insight into the planning, management, and maintenance of an athletic training facility, including paperwork, budgeting, and liability concerns. (F)

PET 4691 Exercise Testing and Prescription of Special Populations (3). The course prepares a student to test and prescribe exercise programs for selected populations groups. Prerequisites: PET 3351.

PET 4711 Teaching Martial Arts (3). Students will develop skills in classroom management, teaching methods, applying specific knowledge of martial arts, conducting tournaments and seminars for the K-12 age group. Prerequisites: PET 3XXX or PET 4XXX. Corequisite: PEM 1405 or PEM 1XXX.

PET 4929 Senior Seminar in Physical Education (3). Required of undergraduate physical education majors in the K-8 and 6-12 programs while student teaching. Provides discussion of current issues and topics related to teaching physical education. Prerequisites: Successful completion of all program requirements. Corequisite: PET 4945 or PET 4944 or PET 4943. (F,S)

PET 4940 Internship in Exercise Physiology: Undergraduate (3). Supervised clinical experience designed to provide the student experience in graded exercise testing and exercise leadership. Prerequisites: PET 3351, PET 5387, and PEP 5115. (F,S,SS)

PET 4943 Student Teaching Grades K-12 (9). Supervised teaching in an elementary and high school. Nine weeks of the student teaching experience will be in the area of concentration.

PET 4944 Student Teaching: Grades K-8 (9). Supervised teaching in an elementary school. Corequisite: PET 4929. (F,S)

PET 4945 Student Teaching: Grades 6-12 (9) Supervised teaching in a middle or secondary school. Corequisite: PET 4929. (F,S)

PET 4946 Sports Management Internship (3-9). Supervised field experience in an approved sport or recreational setting. Prerequisite: Completion of required program and elective courses. (F,S,SS)

PET 5206 Youth Sports (3). Provides insight into the issues surrounding youth sport programs including: program development and analysis, parental influences, relationship of sport to psych-socio development. (AR)

PET 5216 Sports Psychology (3). An analysis of psychological variables that influence physical performance. Intended for prospective physical educators, coaches and others interested in motor performance. (S)

PET 5238C Motor Learning for Sport Performance (3). Emphasis in this course is on current and advanced topics related to motor skill acquisition. Laboratory practices and applied techniques related to teaching are examined. (F)

PET 5256 Sociology of Sport (3). Introduction to basic principles of the sociological bases of sport and physical activity. (SS)

PET 5426 Curriculum in Physical Education (3). Emphasis on curriculum design and development for grades
PET 5436 Physical Education Curriculum: K-8 (3). Examination of objectives, content, methods of teaching, and evaluative techniques in physical education. Emphasis on curriculum development and refinement of teaching skills.

PET 5447 Curriculum in Physical Education 6-12 (3). Theoretical and practical aspects of designing, developing, and implementing curriculum for the secondary school.

PET 5693 Exercise Testing and Prescription of Special Populations (3). The course prepares a student to test and prescribe exercise programs for selected special population groups. Prerequisites: PET 3351.

PET 5716 Analysis and Observation of Teaching in Physical Education (3). Analysis of the teaching-learning process in physical education. Emphasis on systematic observation instruments and guidelines for systematic development of instructional skills. (AR)

PET 5906 Directed Study in Physical Education (1-3). Students will work independently on a topic concerning some phase of physical education or sport under the guidance of a faculty member. Registration is by permission of advisor. (F,S,SS)

PET 5925 Practicum in Physical Education (1-3). Production and/or application of materials and techniques for physical education in a classroom and/or field setting. (S)

PET 5931 Special Topics in Exercise Physiology (1-3). Contemporary issues and practices in exercise physiology. Prerequisite: PET 3351. (AR)

PET 5936 Special Topics in Physical Education (1-3). Contemporary issues and practices in physical education and sport. (AR)

PET 5948 Practicum in Physical Education (3). Production and/or application of materials and techniques for physical education in a classroom and/or field setting.

PET 5XXX Advanced Personal Training (3). This class is designed to prepare students for the National Strength Professionals Association Certified Personal Trainer Examination. Prerequisite: PET 3351 or equivalent.

PET 5XXX Comprehensive Conditioning of Elite Athletes (3). The course prepares a student to develop a comprehensive conditioning program including metabolic, speed, flexibility, plyometric and resistance training. Prerequisite: PET 3351.

RED 4150 Teaching Beginning Literacy (3). Understandings, skills, and dispositions needed to teach literacy to diverse populations in the primary grades. Prerequisites: Block I, Block II. Corequisite: EEC 4941. Field experience required. (F,S,SS)

RED 4311 Teaching Intermediate Literacy (3). Provides understandings, skills, and dispositions needed to teach literacy to diverse populations in the intermediate grades. Prerequisites: Block I, Block II & Block III. Field Experience required. Corequisite: EDE 4941. (F,S,SS)

RED 4325 Special Teaching Laboratory: Reading (3). Skills, techniques and strategies for reading in content areas. Prerequisites: EDG 3321 and EDG 3321L. (F,S,SS)

RED 5155 Literacy Instruction in the Primary Grades (3). Understandings, skills and dispositions needed to teach reading and writing to students who are beginning to become literate. Required for students in VE Modified Masters Program. Prerequisites: EDG 5415 and EDG 5415L. Corequisite: EEX 4940.

RED 5447 Analysis and Production Reading Materials (3). Exploration, creation, and evaluation of reading materials. Prerequisite: RED 4150 or equivalent. (AR)

RED 5448 Teaching Reading by Computer (3). Exposing literacy development with technology.

RED 5911 Directed Study in Reading Education (1-3). Directed study in area of reading instruction. Permission of the instructor required. (F,S,SS)

RED 5925 Special Topics in Reading Education (3). Study in a specified area of reading education. (SS)

SCE 4310 Teaching Elementary Science (3). Understandings, skills, and dispositions needed to teach Science as a mode of inquiry to diverse populations in the preschool and elementary grades. Part of Block I-Base for zero credit. Professional Development in Science in Blocks II through V. Prerequisite: Natural Science. Corequisite: EDE 4941. Field experience required. Lab fee required. (F,S,SS)

SCE 4330 Special Teaching Laboratory: Science (3). Development of instructional skills, techniques and strategies for teaching biological and physical sciences in the senior high schools. Prerequisite: EDG 3321. Field experience required. Minimum prerequisite or corequisite of 16-20 hours in subject matter specialization. (F,S,SS)

SCE 4944 Student Teaching (9). Supervised teaching in a middle school or senior high school. Prerequisites: EDG 3321, RED 4325, appropriate Special Teaching Laboratory, and appropriate number of hours in subject matter specialization. (F,S)

SCE 5905 Directed Study in Science Education (1-3). The student plans and carries out an independent study project under direction. Permission of the instructor. (F,S,SS)

SCE 5930 Special Topics in Elementary Science Education (3). Knowledge and skills, content, strategies and materials for teaching elementary science. (AR)

SCE 5945 Supervised Teaching: Science Education (6). Supervised teaching in a middle school or senior high school. Prerequisites: Admission to the Alternate Masters Track Program and completion of prerequisite course work in education and subject matter area. (F,S)

SPA 3000 Language Development and Communication Disorders. (3). Knowledge of normal acquisition of speech, language, and literacy. Includes overview of major speech/language delays and disorders, plus intervention strategies for teachers and parents. (F,S,SS)

SPA 3612 American Sign Language for Teachers I (4). Introductory training in basic ASL signs and historical and cultural information about the "deaf culture" for teachers. Two hrs/wk of lab required. (AR)

SPA 4613 American Sign Language for Teachers II (4). Intermediate training in ASL signs and additional information about "deaf culture" for teachers. Two hrs/wk of lab required. Prerequisite: SPA 3612. (AR)

SSE 4118 Integrating Social Studies into Early Childhood Curriculum (3).
Develops skills, understandings, and dispositions for teaching social studies to young children from diverse cultural backgrounds. Prerequisite: Block III courses. Corequisite: EEC 4940.

SSE 4312 Teaching Elementary Social Studies (3). Understandings, skills, and dispositions needed to teach Social Studies to diverse populations in the elementary grades. Prerequisites: Block I, Block II, Block III. Corequisite: EDE 4941. (F, S, SS)

SSE 4380 Developing a Global Perspective (3). Theory, content, and practice. Introduction and utilization of learning materials and teaching strategies in Global Education for K-12. (F, S, SS)

SSE 4384 Special Teaching Laboratory: Social Studies (3). Development of instructional skills, techniques, and strategies for teaching social studies in the middle school and senior high school. Prerequisite: EDG 3321. Field experience required. (F)

SSE 4942 Student Teaching (12). Supervised teaching in a middle school or senior high school. Prerequisites: EDG 3321, RED 4325, appropriate Special Teaching Laboratory, appropriate number of hours in subject matter specialization, and admission to the program. (S)

SSE 5908 Directed Study in Social Studies Education (1-3) (ARR). The student plans and carries out an independent study project under direction. Permission of the instructor. (AR)

SSE 5929 Special Topics in Elementary Social Studies Education (3). Knowledge and skills, content, strategies and materials for teaching social studies. (F, S, SS)

SSE 5945 Supervised Teaching: Social Studies Education (6). Supervised teaching or equivalent in a middle school or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (S)

TLS 3370 ESOL Principles and Practices I (3). Introduces issues, principles and practices of teaching English to speakers of other languages to develop the conceptual understandings that form the foundation of knowledge necessary to successfully meet the needs of linguistically and culturally diverse students. Prerequisite: Completion of block I.

TLS 4140 Curriculum and Materials Development in ESOL (3). Applications of ESOL theories, principles, and current research in the development of curriculum and materials; required for area of concentration in TESOL and for the Florida Add-on ESOL Endorsement. (S)


TLS 4324 ESOL Issues and Strategies for Content Area Teachers (3). Analysis, application and adaptation of ESOL methods and materials to enhance instruction for linguistically and culturally diverse students. Fulfills Meta requirements.

TLS 4340 ESOL Methods for Grades K-12 (3). Development of instructional skills, techniques and strategies for teaching English to non-native speakers in grades K-12; required for area of concentration in TESOL and for the Florida Add-on ESOL Endorsement. (F, S)

TLS 4441 Testing and Evaluation in ESOL (3). Develops the knowledge necessary to select, adapt and design assessment instructions and testing techniques appropriate for language minority students in the ESOL classroom. Prerequisite: TLS 4340.

TLS 5142 Curriculum Development in English as a Second Language (3). Description, analysis, planning, design, and evaluation of curriculum in English as a second language (K-adult).

TLS 5245 Developing ESOL Language and Literacy (3). Examines how linguistic theories are applied in the classroom for the development of language and literacy in language minority students. (F, S)

TLS 5938 Principles in ESOL Testing (3). Advanced study and research on current issues in the field of ESOL testing. Topics include principles and practices of ESOL testing for classroom use, communicative language test development, criteria for evaluating testing instruments, and study of standardized ESOL tests. (AR)
College of Education

Dean
Linda P. Blanton

Associate Dean
Wendy Cheyney

Research and Grants
Mark Shermis

Assistant Dean
M. A. Bilbao

Student, School, and Community Services
Carmen Mendez

Chairpersons
Mohammed K. Farouk

Curriculum and Instruction
Charles Divita

Educational Leadership and Policy Studies
Patricia Barbetta

Health, Physical Education, and Recreation
Robert M. Wolff

Subject Specializations
Mohammed K. Farouk

Coordinators/Directors

Coordinator of Doctoral Programs
Frank DiVesta

Director of Internship and Student Teaching
Karyl Boynton

Associate Director of Student Services
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Yongue, Bill Ed.D. (West Virginia University), Associate Professor, Elementary Physical Education, Health Education and Recreation
College of Engineering
The programs of the College are directed towards the practical use of scientific, engineering, and technical principles to meet the objectives of industry, business, government, and the public.

The College provides each student with the opportunity to develop a high level of technical skills and to obtain an education which will prepare him or her for a rewarding career and personal growth.

Underlying the programs of the College is a recognition that the growing impact of technology upon the quality of life is increasing and that the proper application of technology is critical to meeting current and emerging human needs.

The College faculty is actively engaged with business, industry and government. Faculty members also participate in a variety of basic and applied research projects in areas such as energy, transportation, solid waste disposal, biomedical devices and instrumentation, computer engineering, artificial intelligence, manufacturing, robotics, telecommunications, microelectronics, structural systems, biotechnology, systems modeling, information technology, environmental sciences and engineering, image processing engineering education, etc.

Undergraduate students are given the opportunity to participate in many of these research projects.

Educational Objectives for Engineering

All engineering programs in the college are designed to give our students an outstanding education. To illustrate the excellence of our program, please note the educational objectives below that are met in every Engineering program.

1. Develop within our graduates a basic foundation in the fundamental areas of engineering and to provide the technical proficiency needed for the professional practice of engineering.

   Our graduates will be able to:
   A. Design a system, component, or process to meet desired needs related to the major technical areas encompassed by engineering.
   B. Design and conduct experiments and analyze and interpret data related to at least two of the major technical areas encompassed in engineering.

2. Foster within our graduates the development of an understanding for the need to maintain the highest ethical standards in their personal and professional lives.

   Our graduates will:
A. Demonstrate an understanding of professional integrity and ethical responsibilities.
B. Demonstrate an understanding of professional responsibility issues as they relate to public interest, health, and safety.

Accreditation
The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET) accredits engineering programs on a nationwide basis. Students wishing more information about accreditation should consult their respective departmental office or the Office of the Dean. All baccalaureate engineering programs in the College are accredited by EAC/ABET.

(No new admits at this time)

Plan of Study
The subjects basic to all fields of engineering are generally studied while the student is in the first two years of undergraduate study in a pre-engineering curriculum. Specialized or departmental courses are taken in the third or fourth years with additional interspersed mathematics and humanistic-social studies. To earn a bachelor's degree in engineering, a student must complete the approved curriculum requirements, and must have a cumulative GPA of at least 2.0 on all engineering courses taken at the University.

The engineering programs include a strong engineering core foundation designed to prepare the prospective engineer not only with a broad base of fundamental courses in mathematics, sciences and technical knowledge, but also with a solid cultural background in humanities, social sciences and English. In addition to the core subjects, the student must complete an engineering discipline specialization under the direction of the respective academic department.

Admission Preparation
Prospective students who are considering engineering should follow an academic program to meet engineering prerequisites. The student planning to transfer to the engineering program as a junior should follow a pre-engineering program in the first two years of college work. Many courses required by the engineering curriculum are specialized in their content and students need to select lower division courses with care. The normal maximum number of credits transferred from a community college is 60 semester credits.

Freshman admission to the University is determined by the admission standards of the lower division. The admitted freshmen should discuss their future program intentions with their lower division advisor and plan their lower level course selections towards their engineering program goals. The freshman should have had high school preparation of considerable depth and breadth. Specifically, students admitted to the lower division interested in engineering should have preparation in mathematics (algebra, geometry, trigonometry, analytical geometry, or pre-calculus) and chemistry. Physics and introduction to computers are recommended, but not required. Admitted freshmen students planning to major in an engineering program should contact an advisor in their respective discipline as early as possible.

Engineering Admission Policy
The admission policy for freshmen and transfer students are different and the policies may vary in each department. (Refer to the Admission Policy in the department of your choice.)

FIU Freshmen
Students seeking admission to an undergraduate degree program will be admitted by the Admissions Office if the following criteria are met:

a. All general admission requirements of the University are satisfied.

b. In order to be admitted into upper division Engineering, a student must earn a grade of 'C' or higher in all Calculus courses, Differential Equations, Physics I with Calculus, Physics II with Calculus, and Chemistry I. Consult the department for details.

Transfer Students
All transfer students must meet the general University requirement for admission and must pass the CLAST. There is a two step process in the evaluation of transfer credits.

a. The Office of Admissions will make a preliminary evaluation of the student’s background for general compliance and determination of applicable General Education courses taken.

b. The specific department will determine the exact transfer of applicable credit. The departmental evaluation is the final word in this matter.

c. FIU adheres to the Board of Education Articulation Agreement between the Universities and Community Colleges of the State of Florida. Therefore, transfer of credit from Florida Community Colleges is facilitated.

Preference is given to Associate of Arts degree holders from Florida Community Colleges. For holders of other degrees, it is suggested that application is made about three months prior to the beginning of the term.

For specific course requirements, see the departmental sections, shown later in the catalog.

College of Engineering Dismissal Policy
A student who has been dismissed from the University for the first time may see his/her advisor to begin the appeal procedure. The advisor will determine if the student is eligible to appeal the dismissal or if there is a way to lift the dismissal. If the student is eligible, he or she must make an appointment to see the chairperson or associate chairperson. The student must bring a letter stating when he or she was dismissed the first time and what he or she is going to do to ensure that he or she is not dismissed a second time. The student must also sign an agreement stating that he or she understands that the department will not allow a second reinstatement if the student is dismissed again. If the chairperson determines that the student is worthy of reinstatement, he or she will prepare and sign a memo for the Dean's consideration stating the conditions for the student to be reinstated (the student will be readmitted on academic, probation). If the student does not meet these conditions, he or she will be dismissed a second and final time from the program.

Any student who is dismissed a second time from FIU will not be readmitted under any circumstances. Institutional policy is that students may appeal to the Dean's Office, but only a first dismissal appeal is considered in the College of Engineering. A second dismissal appeal will not be accepted.

The College of Engineering will uphold the following institutional policies:

Academic Salvage
A student who is dismissed and subsequently receives an AA degree from another Florida public institution of higher learning can appeal to the department and may be readmitted to the program. The student’s GPA will be recalculated.

**Academic Amnesty**

After 6 years of NOT taking courses at any College or University, an FIU undergraduate may reapply to the program. If readmitted, a student’s FIU GPA will be set at 0.0. However, credit for previous University courses in which the student received a minimum grade of “C” may be applied toward the degree, (not the GPA), subject to determination by the department from which the student is attempting to earn the degree.

For more information or to find out if you are eligible, see your advisor.

**Transfer of Courses to Engineering Programs**

Courses from ABET-accredited universities will be transferred under the discretion of the engineering department. Course equivalencies will be determined solely by the department advisor, associate chairperson, or chairperson. Any other faculty member in the Department, College, or University cannot officially grant transfer credits under any circumstances.

Courses from non-ABET accredited programs (including Foreign institutions) will only be accepted as long as all of the following requirements are met:

- a) The College/University is recognized and accredited by the appropriate governing bodies (to be determined by our office of admissions)

- b) For courses that are not offered directly from the student’s Engineering department at FIU, a memo must be obtained by the student from the appropriate FIU department stating that the course is equivalent to the required course at FIU.

- c) Any engineering course considered for transfer must be a 100% engineering science course at FIU.

If the course is partially or completely designated as an engineering design course at FIU, it cannot be transferred. All transferred engineering courses must have the consent of the chairperson or associate chairperson of the student’s department.

d) The student must earn the equivalent grade to what is required in the courses here at FIU (i.e., if a department requires a “C” in Physics, then the student must have a grade equivalent to a “C” at their university of origin).

e) Technology credits and life experience credits will not be accepted as engineering credits under any circumstances.

**Academic Support Services**

The area of academic support services is responsible for the coordination of academic advising and student service activities for the College of Engineering. This area is also responsible for keeping students informed on educational opportunities such as scholarships, tuition waivers, internships, Co-op studies and campus resources; serves as a liaison between the academic departments and the student support services university wide and facilitates the registration process in order to make sure that the students adhere to the college guidelines.

A student who has been accepted to a degree program in the College must obtain and consult an advisor prior to the first class enrollment. An advisor may be seen by contacting the Department in which an academic major is desired. Continued contact (at least once per semester) with the advisor is required to review progress and select courses for each succeeding semester. Such contact is required until an approved program of study is completed.

**Cooperative Education**

A Cooperative Education (Co-op) Program is conducted by the College in conjunction with the Department of Cooperative Education in the Division of Student Affairs. In this program, students spend alternate semesters in school full-time and fully employed in industry in a technical position directly related to their major. Students receive full pay for their work in industry.

Placement in co-op positions is arranged by the Co-op Department and includes both local and national industrial, business and governmental agencies. Co-op students typically agree to spend at least three work periods in industry.

Applicants for the program are evaluated by the College and should contact the appropriate chairperson. Based on three work periods, students should enter the program during the first semester of the junior year. Inquiries from lower-division students, prior to transfer to the University are encouraged since work may be arranged immediately upon enrollment. The Co-op program also offers the Parallel Co-op whereby a student might alternate work and study during the same semester by attending the University part-time and working part-time in industry.

**General Requirements for a Baccalaureate Degree**

In order to obtain a Bachelor’s degree from the College, each student must satisfy the following minimum requirements:

1. Obtain the minimum number of semester credits required by the specific program. Specific requirements are described in the sections devoted to the various departments in the College.

2. Complete at least 35 semester credits in the upper-division at FIU.

3. Attain a minimum grade point average of 2.0 in all courses taken at the University.

4. Satisfy the general education requirements of the State of Florida for the Bachelor’s degree.

5. Satisfy the particular requirements for his or her own major and all University requirements for graduation.

**Scientific Laboratory Fee**

Scientific laboratory fees are assessed for certain courses where laboratory classes are part of the curriculum. Specific information on scientific laboratory fees may be obtained from the academic departments or University Financial Services.

**Prerequisites**

Students must have met the prerequisites and corequisites to register for any course. Otherwise, the student will be dropped from the course before the end of the term, resulting in a grade of DR or DF. Students should refer to the Catalog or see an advisor to determine course prerequisites.

**Course Repeats**

This varies depending upon the particular program. For more information consult your advisor.
Policies, Requirements, and Regulations

The University, the Graduate School, and the College of Engineering have a set of guidelines to protect the student's rights and to ensure a timely graduation. Students must become familiar with all university, Graduate School, and College's graduate procedures. These procedures are described in the University's Student Handbook.

The programs, policies, requirements and regulations listed in the catalog are continually subject to review to serve the needs of the University's various publics, and to respond to the mandates of the FIU Board of Trustees and the Florida Legislature. Changes may be made without advance notice.

Florida International and the College adhere to opportunity practices, which conform to all laws against discrimination and are committed to non-discrimination with respect to race, color, creed, age, handicap, sex, marital status, or nationality. Additionally, the University is committed to the principle of taking positive steps necessary to achieve the equalization of educational and employment opportunities.

Department-Specific Information

Please refer to your selected department in this catalog for additional information, or call the department:

Biomedical (305)348-6950
Civil and Environmental (305)348-3055
Construction Management (305)348-3172
Electrical and Computer (305)348-2807
Industrial and Systems (305)348-3491
Mechanical (305)348-2569

Important Contact Information

Web site http://www.eng.fiu.edu
Admissions (305)348-2363
Campus Resources (305)348-2973
Career Services (305)348-1281
Financial Aid (305)348-2489
Graduate School (305)348-2455
International Student Services (305)348-1913
Registrar's Office (305)348-2320
Scholarships (305)348-2713
Tuition Waivers (305)348-2713

FEEDS External Programs

Mercy Rueda, Director, Academic Support Services

Florida Engineering Education Delivery System (FEEDS) is a statewide system whereby graduate and undergraduate level engineering courses are delivered to industrial sites and cooperating centers via distance learning. Students with work and family responsibilities are offered the flexibility to take courses around their busy schedules. Courses are delivered through one or more of the following four methods: videotape (asynchronous, traditional FEEDS program); ITFS (synchronous, interactive TV that is one-way video and two-way audio); videoconferencing (synchronous, interactive TV that is two-way video and two-way audio), and web-based asynchronous networks.

Currently, students can select the necessary courses from FIU via distance learning to obtain a Master's degree in Electrical Engineering, Computer Engineering, Environmental Engineering, Biomedical Engineering, Construction Management and Engineering Management.

A student taking a course through FEEDS must meet the same requirements as the student on campus and will earn the same credit as if he/she were to attend classes on campus. A student need not be enrolled in a graduate or undergraduate degree program in order to take a course. However, a student who intends to seek admission to a program should be aware that no more than six (6) graduate or fifteen (15) undergraduate credits are allowed to be transferred into a program.

Seminars

Review seminars are offered for the Professional Engineer exams. Contact the appropriate engineering department for details.

Special Programs

The College is actively engaged in a number of special programs as a service to the community and the University. Among these programs are:

Florida Action for Minorities in Engineering (FLAME)

This is a cooperative program between Miami Coral Park Senior High School and Florida International University aimed at introducing the profession of engineering to high school students, and to identify, select, enroll and retain minority students in the engineering field. Senior High School students also registered for dual enrollment classes at FIU.

Florida/Georgia Louis Stokes Alliance for Minority Participation (FGLSAMP)

This is a National Science Foundation funded program in association with Florida Agricultural and Mechanical University (FAMU), the leading institution. This program focuses on engineering, math chemistry, biology, physics, and computer science undergraduate students. Participants receive scholarships, during the entire academic year based on high GPA and being a full time student. Opportunities for summer internships are available.

Junior Engineering Technical Society (JETS)

(TEAMS)
The JETS Test of Engineering Aptitude, Mathematics and Science (TEAMS) is an academic problem-solving competition, that serves all public and private high schools within our geographical area with focus on a one day activity at Florida International University. (NEDC)
The National Engineering Design Challenge (NEDC) is a high school engineering-based program in which teams from the state of Florida attend our university to demonstrate a working solution to a societal need. The focus of this competition is to involve students in exciting learning experiences and to encourage young people to pursue engineering and technology careers. (UNITE)
A collaborative effort between Florida International University, the U.S. Army, and the Junior Engineering Technical Society. The JETS UNITE Program's goal is to increase the number of underrepresented students in the field of engineering, to improve the performance of the students in their SAT/ACT exams, develop resourceful, self-motivated well rounded graduates who will be responsible and well adjusted citizens. (NEAS+)
The JETS National Engineering Aptitude Search+ (NEAS+) is offered to high school students to measure their readiness for college engineering and technology study. This self-assessment package allows students to "test" themselves in three basic engineering skills areas: applied mathematics, science, and reasoning.

SECME/District Olympiad
This program is in conjunction with Miami-Dade County Public Schools
and other local universities and colleges. It serves middle and high school students in a variety of competitions such as: egg drop, mouse trap car, bridge, brain bowl, etc. The College of Engineering at FIU is a cosponsor of this activity in Miami-Dade County.

**Florida Collaborative for Excellence in Teacher Preparation (F.C.E.T.P.)**
The Florida Collaborative for Excellence in Teacher Preparation (F.C.E.T.P.) is a National Science Foundation sponsored effort aimed at increasing the number of teachers in the science and mathematics fields. The Florida CETP brings together a diverse group of science/mathematics and education discipline faculty who are committed to improving the preparation of K-12 science and mathematics teachers and influencing the quality of education at the middle and high school levels.

**Proyecto Access/Miami Prep**
A nationwide adaptation of the Texas Prefreshman Engineering Program. This program is a collaborative effort of the Hispanic Association of Colleges and Universities (HACU), the University of San Antonio, and the National Aeronautics and Space Administration (NASA). Its goals are to identify socially and economically disadvantaged achieving middle school students who are interested in science and engineering careers and to provide them with necessary enrichment in the pursuit of these careers.

**Engineering and Technology Industry Focus Center**
The purpose of this program is to identify high school students from the Greater Miami area who are socially and economically disadvantaged and interested in becoming scientists and engineers, and provide them with academic enrichment and reinforcement in the pursuit of these fields. The students have the opportunity to earn one high school credit through the course entitled Leadership Skills Development.

The Engineering and Technology Industry Focus Center is implemented as a part of the Training and Employment Council of South Florida, and the summer Youth Training Program.

Academic program includes:
- Introduction to Engineering
- Computer Technology
- Career Awareness
- Innovative hands-on projects and engineering labs
- Leadership Skill Development
- Field trips

The College faculty is actively engaged with business, industry and government. Faculty members participate in a variety of applied research projects in such areas as energy, transportation, solid waste disposal, biomedical devices and instrumentation, water resources, computer engineering, artificial intelligence, manufacturing, robotics, telecommunications, micro-electronics, structural systems, biotechnology, etc.

**ENLACE MIAMI Initiative**
(Engaging Latino Communities for Education) is a planning grant funded by the W.K. Kellogg Foundation, which strives to improve higher education opportunities for the Hispanic youth community. "Enlace will strengthen the pipeline, so that more Hispanic youth will enter and complete college". Florida International University together with local public and private entities is developing a proposal for the implementation of a program that addresses the educational needs of Hispanic students in the Coral Park feeder pattern. Partners include: Miami-Dade County Public Schools, Miami-Dade County Public Library System, Institute of Electrical and Electronics Engineers, Miami Chapter, The Center for Urban Education and Innovation, Aspira of South Florida, The Non-Violence Project, the Spanish Broadcasting System, and CAMACOL (The Latin Chamber of Commerce of USA).

**GEAR UP Homestead**
The GEAR UP Homestead project produces in assisting a maximum number of students living within the Homestead area achieve a college career, while implementing a self-sustaining system to continuously duplicate the process. Homestead Florida is faced with serious issues that require assistance from other communities, such as poverty, lack of jobs, and problems related to disadvantaged societies. Fortunately, with the development of the GEAR UP Homestead Partnership Plan as well as the aide to public, private and governmental institutions, the targeted cohort students of the Homestead area will be able to reach their maximum potential through a college education. Partners such as the US Department of Education will supply a vast portion of the resources needed to perform this project. Aspira, a non-profit organization, is dedicated to creating leadership through education for those who are disenfranchised, or socially and economically disadvantaged. Another important team player is the Non-Violence Program of Miami, contributing the idea that knowledge is the best weapon against violence, and motivating young people to engage in positive action to make our communities safer.

The GEAR UP project is made of several components that contribute a wider reach into insuring that a maximum result is gained by everyone involved. Among these components are in-school tutoring and assistance programs. The Summer Enrichment Program offers an alternative way of spending those long summer days. The teacher training Development Program, as well as PRISM (Program of Industry Supported Mentorship’s) enrich teachers with the right preparation to confront all kinds of situations. Perhaps the most important aspect that will contribute to the outcome of the child is the parental influence and family involvement into their success. In a fast-paced and demanding society, this is often a difficult threshold to cross. Parent Involvement Program (PIP) encourages parents to have a positive active role in their child’s every day awareness of the future. Education begins in the home and ends in the child’s decision to instill a safe and productive future. The powerful drive needed to assist the process of growth and awareness is the very reason for the existence of programs such as GEAR UP.

The mission of the partnership addresses the needs of the student by bringing the necessary awareness and readiness for a successful college education. To succeed such advancement, GEAR UP has established a mission, goals, objectives and outcomes that will serve as the foundation for a successful program. The dedication of the partnership as well as a Vision Statement that clearly unifies the community to serve its future provides an inspiration that the education of today paves the road towards tomorrow’s success.

**Project MASST – Mathematics/App lied Sciences Teachers’ Training**
A pre-service and in-service teachers’ training program designed to improve the quality of elementary and middle
school science and mathematics education. Topics content knowledge, experiments, and latest information concerning teaching methodology are created and compiled by consortium: the NASA/Kennedy Space Center, the Miami – Dade County Public School System, the Public School System of Puerto Rico, Universidad del Turabo and Florida International University.

Tele-MAESTRO Mathematics, Arts, Engineering, Science, and Technology Reach Out

A newly funded and innovative education program developed in the Spanish Language, by and for Hispanic minorities. The purpose of the program is to bring mathematics, science and technology to Hispanic youth through televised, Spanish-Language Media in its mission to bridge the technology gap which exists for this nation’s Hispanic minority. The consortium, made up of federal agencies, learning institutions, community organizations, and Spanish-language television network will work to engage Hispanic youth of elementary and middle school ages in scientific exploration.

Research and Development Centers

NSF-The Center for Advanced Technology and Education—CATE

Introduction

The NSF-funded Center for Advanced Technology and Education (CATE) provides a computing environment capable of engaging researchers as well as facilitating classroom and laboratory-based instruction in critical technology areas. CATE constitutes an infrastructure that is viable for cutting-edge research activities providing an environment that enhances the potential for: (a) parallel and distributed processing, (b) high performance 3-D graphics for simulation, rendering, and modeling, (c) real-time processing capability, (d) operating systems, graphics, and software development that meet current standards, and (e) high-speed data acquisition, playback, analysis.

Research Areas

- Image Processing and Computer Vision
- EEG-Based Research
- Human-Computer and Brain-Computer Interfaces
- Robotics for Motion Planning and Automated Guidance
- Real-time and Multidimensional Signal Processing
- Confocal Microscopy
- Flow Cytometry for Hematology Studies and Data Analysis

Main Equipment

- ESI-256 System, an Electrical Source Imaging as a Human-computer Interface for Brain Research
- Onyx Supercomputer for parallel processing
- Confocal Microscope for time-varying 3-D imagery
- Coulter EPICS Profile II Cytometer for measuring light scatter (fluorescence or laser) of microscopic particles
- Nomadic Mobile Robot (Nomad200) with integrated sensory modules
- 4 servers, 22 Indys, and 18 Pentium PCs
- Computer Cluster for distributed processing with 8 processing units

Human Resources

Director: Malek Adjouadi, Ph.D.
Manager: Patricio Vidal, M.Sc.

Technical and Networking Support:
Eddy Caballero, Luis Arenicibia, and Michael Valdes, Oscar Silveira, and Sheldo Silveira.

Faculty: Armando Barreto, Ph.D.; James Story, Ph.D.; Gustavo Roig, Ph.D.; Wumava Subbarao, Ph.D.; Ana Pasztor, Ph.D.; Maria Matinez, Ph.D.; and Mark Weiss, Ph.D; Gualberto Cresnades, Ph.D.

Ph.D. Students: Noemi Fernandez, Mildred Saenz, Patricio Vidal, John Riley, Jian Yang, Wei Yao, Cai Weiting, and Monica Dezuluta.

MS Students: Natasa Mirkovic, Mercedes Cabreteriz, Kircnia Nunez, Zhong Nuanman, Maria Tito, Mark Rossman, Celso Duran, Alejandro Simon, Manuel Docورو, and Graig Mackay.

ONR and NSF-REU Undergraduates:

NSF Graduate Fellow: Mercedes Cabrero 2002-2005.
Miami Children's Hospital Research Fellows: Natasa Mirkovic, Mercedes Cabrero, Kircnia Nunez, Maria Tito, Mark Rossman, and Alejandro Simon.

Consultants: Dr. Julie Jacko, Georgia Tech., Dr. Richard Abo, University of Houston Downtown, and Dr. Kurt Vanleh, University of Pittsburgh, Dr. Prasanna Jayakar, Miami Children's Hospital, Dr. Ilker Yaylali, Miami Children's Hospital.

Coordinator, Student Recruitment and Outreach: Ms. Stephanie Strange
Web Design and Development Course Instructor: Mr. Amado Gonzalez

Related Facilities and Laboratories:
1. Interactive Design Laboratory for Undergraduates Funded by NSF and Matching funds from DSRT.
2. The Laboratory for Human-Computer and Brain-Computer Interface Research, Funded by NSF, Housed at Miami Children's Hospital.
3. The Computer Training Laboratory – Funded by ONR Housed in Graham Center with the Office of Multicultural Services.
4. The Web-Design and Development Laboratory, Housed within EIC, Funded jointly by ONR and NSF.

Cardiovascular Engineering Center (CVEC)

James E. Moore, Jr., Ph.D. Associate Professor and Director
Andreas O. Frank, Ph.D. Research Faculty
Juan Franquiz, Ph.D. Assistant Professor
Anthony J. McGoron, Ph.D. Assistant Professor
Richard T. Schoephoerster, Ph.D. Associate Professor
Ofir Amit, Research Coordinator
Michael P. Anzelmo, Lab Manager
James D. Byrne, Research Faculty
Kenneth Setzer, Assistant Editor
Rostislav Verona, Senior Secretary

The Cardiovascular Engineering Center (CVEC) unifies the efforts of the academic, industrial and clinical sectors in advancing cardiovascular engineering science and technology. It is specifically planned with and designed to support the biomedical industry in South Florida and the $3.1 trillion world market for cardiovascular devices and instrumentation. In addition to its research efforts and
Collaboration with industry and clinical partners, CVEC serves as the research arm of the Biomedical Engineering Institute (BMEI)—an interdisciplinary unit within the College of Engineering that supports the Biomedical Engineering program and the subsequent research activity.

The Cardiovascular Engineering Center aims to accelerate the transfer of research to practical applications. It concentrates on design, development and enhanced implementation of diagnostic, interventional, therapeutic and replacement systems and devices associated with the cardiovascular and blood systems. Faculty from the College of Engineering, the College of Health Sciences, and the Department of Biological Sciences collaborate on research efforts in the Center. Scientists, physicians, and biomedical engineers from industry join FIU faculty in research projects.

The Cardiovascular Engineering Center has a unique role of educating biomedical engineering professionals and preparing a workforce for the biomedical industry by contributing research opportunities for the students in the academic program. At CVEC students have the opportunity to participate in research assignments within a multidisciplinary environment with faculty, industry engineers, scientists, and clinicians.

The Cardiovascular Engineering Center supports applied research interests of industry and clinical sectors and operates in an industry environment. The students enrolled in the biomedical engineering program are exposed to this environment and are better equipped to succeed as professionals.

The CVEC conducts research in biofluid and biosolid mechanics; experimental, mathematical and computational modeling; biomaterials; artificial heart valves; vascular grafts; stents; cardiovascular devices and instrumentation; biomimaging, signal processing and diagnostic imaging.

Drinking Water Research Center

The Drinking Water Research Center conducts basic and applied studies in the area of water resources as it relates to drinking water quality and quantity. The Center also provides research opportunities for undergraduate and graduate students to conduct independent studies in cooperation with other departments in the University. The Center’s laboratory facilities are certified by the State of Florida to analyze chlorination by-products in water samples.

Examples of the current research projects conducted at the center include dynamic aspects of speciation of metals in the Miami River sediments in relation to particle size distribution and chemical heterogeneity; experimental and mathematical modeling of the fate and transport of contaminants in waters of both natural and engineered systems; characterization of processes that affect the transportation of oils, fuels, and herbicides in surface and ground waters; calibration and validation of watershed management models; pesticide sorption on various geosorbents; surfactant-amended remediation; development of new and improved strategies for measurement and detection of contaminants in water and soil by capillary gas chromatography; and the development of pollution prevention assessments in support of industrial ecology. In addition to research activities, the center also conducts short courses for training of local, regional, and national environmental professionals.

Research and Support Staff

Berrin Tansel, Ph.D., P.E., Associate Professor, Civil and Environmental Engineering and Director

Mehrzad Mehran, Pharm.D., Senior Research Scientist

Nahid Golkar, M.S., Research Scientist

Future Aerospace Science and Technology Center for Cryoelectronics (FAST)

Grover Larkins, Associate Professor, Electrical and Computer Engineering Department, and Director

FAST is one of five centers created by the Air Force as part of its minority university enhancement program, providing research experience opportunities for undergraduate and graduate students in the area of Electrical Engineering.

The FAST Center evaluates novel applications of space-based cryoelectronics, initially studying new systems for reduction in losses of feed and phase shift networks in phased array transmitter systems. This involves development of low-loss active integrated low-noise phased array or post-processed phased array down-converter receiving systems, high-gain, low loss, low noise micro (and later millimeter) wave circuits and systems for space based applications. Of particular interest is the ability to design and fabricate integrated systems which could be used as "steerable" phased array antennas with some frequency-agility as well.

Current research is focused on issues relating to: integration and heteroepitaxy of the buffer and dielectric layer with the GaAs semiconductor and 123 high Tc superconductor layers; obtaining good ohmic GaAs contacts at low temperatures, tailoring the surface morphology of the high Tc superconductor to achieve a designed Q value for the passive elements, package design and testing with respect to microwave and thermal cycling consideration, and the identification and minimization of noise sources.

Lehman Center for Transportation Research (LCTR)

L. David Shen, Professor, Civil and Environmental Engineering and Director

Fang Zhao, Associate Professor, Civil and Environmental Engineering and Associate Director

Sylvan C. Jolibols, Jr., Associate Professor, Civil and Environmental Engineering, and Associate Director

Albert Gan, Assistant Professor, Civil and Environmental Engineering and Assistant Director

The Lehman Center for Transportation Research (LCTR) at Florida International University was established in 1993 in honor of Congressman Bill Lehman and his tireless efforts to make South Florida a better place for all of us. The center's vision is to become a strong 'state-of-the-art' transportation research and training facility. LCTR is committed to serve and benefit our society by conducting research to improve mobility, hence the quality of life issues, develop partnerships in the transportation industry, and educate a multidisciplinary workforce to plan, design, manage and implement transportation systems.

Faculty, staff and students at LCTR are involved in research related to the planning, design and operation of transportation systems, public policy, air pollution, and the application of
geographic information systems and other advanced technologies such as artificial neural networks and scientific visualization in transportation. Future plans include networking with the public and private industry to collaborate on transportation related research. In addition, applied research will be conducted on, but not limited to intelligent vehicle and highway systems.

Manufacturing Research Center (MRC)

Chin-Sheng Chen, Professor, Industrial Engineering, and Director
Kinzy Jones, Professor, Mechanical Engineering and Co-Director
Mario Sanchez, Senior Engineer and Laboratory Manager

The objective of the Manufacturing Research Center (MRC) is to prepare manufacturing engineers for an era where enterprises will be mostly information-based and international in nature. Its resources and equipment available to any company in need of knowledge and/or expertise in its specialty areas, primarily rapid product design/development and manufacturing. It is divided into major labs and built to provide a seamless integration of computerized engineering tools for design (CAD), manufacturing (CAM), inspection (CM), and rapid prototyping (RP) for mechanical and electronic product design and fabrication.

Its two main laboratories include the Rapid Product Realization Laboratory, consisting of a design front end, an RP center for mechanical/electrical components, and computer driven manufacturing and inspection systems. The design center allows design intent to be modeled via Pro/Engineer and analyzed with finite element packages. Its RP facility includes three different techniques: stereolithography, fused deposition modeling and laminated object manufacturing. Mechanical parts are fabricated with a Vertical Machining Center, a CNC turning center, an EDM machine and a traveling wire EDM. Production capabilities are enhanced by an injection molding machine. A coordinate measuring machine provides dimensional analysis, verification and reverse engineering capabilities. The Process Characterization Laboratory includes process development furnaces, electron microscopes, X-ray diffractometers, thermal analysis, mechanical testing, and sample preparation and inspection capabilities.

The MRC regularly schedules training courses in Pro/Engineer and other industry-specific software at substantial discounts. Course instructors typically come from industry, bringing real-life hands-on experiences to the class. Companies served by the MRC range from entrepreneurial to well-established, and include aerospace, automotive, marine, medical and consumer product manufacturers. For more information, call the MRC at (305) 348-6557, directly contact Dr. Kinzy Jones (jones@eng.fiu.edu), Dr. Chin-Sheng Chen (chen@eng.fiu.edu), or refer to our website at www.eng.fiu.edu/MRC.

Telecommunications and Information Technology Institute

A Partnership in Workforce Development

Niki Pissinou, Professor, Telecommunications & Information Technology Institute, Director

Florida International University (FIU) recognizes the need to nurture highly trained personnel for the nation's industry and business, develop research in support of the rapidly expanding high-tech industry and become proactive in technology transfer, thus ensuring continued economic growth and prosperity. In order to fully meet today's technological demands, FIU has established the Telecommunications and Information Technology Institute (IT²). IT² promotes advanced multi-disciplinary education and research focused on telecommunications and information technologies. IT²'s mission is to:

1) Deliver high quality telecommunications and information technology education and training.
2) Conduct and promote research to enhance Florida's role as a leader in telecommunications and information technology.
3) Offer training that is needed to foster business development and workforce preparedness.
4) Promote technology transfer to enhance the enabling-technologies of the telecommunication and information technology industries.

In fulfilling its mission, IT² promotes interdisciplinary collabor-
Biomedical Engineering

Richard Schoephoerster, Professor and Director
Malek Adjouadi, Associate Professor
Armando Barreto, Associate Professor
Eric Crumpler, Assistant Professor
Juan Franquiz, Assistant Professor
Anthony McGoron, Assistant Professor
Malcolm Heimer, Associate Professor
James E. Moore, Jr., Associate Professor
Diana Rincon, Assistant Professor
Ilker Yaylali, Courtesy Assistant Professor

Minor in Biomedical Engineering

The Minor requires 22 credit hours consisting of the following courses:

CHM 1046 General Chemistry II 3
CHM 1046L General Chemistry II Lab 1
BSC 1010 General Biology I 3
BSC 1010L General Biology I Lab 1
EGM 4580 Principles of Bioengineering 3
BME 4011 Clinical Rotations for Biomedical Engineering I 1
ELR 4202C Medical Instrumentation 4
EML 4585 Design of Biomedical Systems and Devices 3

Biomedical Engineering Elective 3

Students majoring in chemical, electrical, or mechanical engineering may apply the Minor towards a five-year accelerated combined degree program with the Master's degree in biomedical engineering.

Five Year Accelerated Combined BS/MS Degree Programs

1. BS in Chemical Engineering/MS in Biomedical Engineering.
2. BS in Electrical Engineering/MS in Biomedical Engineering.
3. BS in Mechanical Engineering/MS in Biomedical Engineering.

The Electrical and Computer Engineering Department, the Mechanical and Chemical Engineering Department, and the Biomedical Engineering Institute at Florida International University offer seamless, five-year, 150 credit hour combined BS/MS degree programs designed to integrate the 128 credit hour undergraduate engineering curriculum with the 31 credit hour biomedical engineering Master's degree curriculum into a single, coherent program. The graduate of this program will earn a Bachelor's degree in chemical, electrical, or mechanical engineering with a minor in biomedical engineering and a Master's degree in biomedical engineering. Nine credit hours count towards both programs.

The BS/MS (3 + 2) Program has been designed to be a continuous program. Students in 3 + 2 programs will apply for graduation with the BS and MS at the same time. Students will receive a BS degree and a MS degree on the same date, after requirements for both are completed. The student's advisor will insure that appropriate courses are completed, and that students do not apply for BS degree graduation until both BS and MS requirements are finished. Upon the completion of BS degree requirements, students can elect to permanently leave the combined program at any time and earn only the BS degree. Once the BS is granted, students will have the same access requirements to regular graduate programs as any other student. However, the combined MS degree would not be available to those who elect to leave the combined program.

The program is designed to prepare the student with the fundamental knowledge of chemical, electrical, or mechanical engineering along with the problem-solving skills in biomedical engineering necessary for effective practice in the biomedical industry.

All students admitted and enrolled into the chemical, electrical, or mechanical engineering program may enroll in the minor program in biomedical engineering. Students seeking admission into the accelerated graduate program in biomedical engineering must have completed a minimum of 90 hours towards their BS degree and have earned at least a grade point average of 3.25 or better in those undergraduate engineering courses to be used to satisfy the combined BS/MS requirements. This "major GPA" is computed in the manner of the overall GPA. Courses that are excluded from the calculation of the overall GPA will also be excluded from the calculation of the major GPA.

All other general requirements for the chemical, electrical, or mechanical engineering programs apply to the respective combined BS/MS program.

Curriculum

The curriculum consists of six core areas: Liberal Arts, Basic Sciences, Life Sciences, Basic Engineering, Biomedical Engineering, and one of three core areas depending on the major: Chemical, Electrical, or Mechanical Engineering.

Liberal Arts (23)

| Humanities/social science | ENC 1101 Freshman Composition 3 |
| ENC 1102 Literary Analysis 3 |
| SLS 1501 Freshman Experience 1 |

Basic Sciences (31)

| CHM 1045 General Chemistry I 3 |
| CHM 1045L General Chemistry I Lab 1 |
| CHM 1046 General Chemistry II 3 |
| CHM 1046L General Chemistry II Lab 1 |
| MAC 2311 Calculus I 4 |
| MAC 2312 Calculus II 4 |
| MAC 2313 Multivariable Calculus 4 |
| MAP 2302 Differential Equations 3 |
| PHY 2048 Physics I with Calculus 4 |
| PHY 2048L General Physics I Lab 1 |
| PHY 2049 Physics II with Calculus 4 |
| PHY 2049L General Physics II Lab 1 |

Life Sciences (13)

| BSC 1010 General Biology I 3 |
| BSC 1010L General Biology I Lab 1 |
| BME 5702 Engineering Analysis of Biological Systems 3 |
| Life Science Elective 3 |
| STA 6176 Biostatistics 3 |

Basic Engineering (15)

| CGS 2423 C for Engineers or equivalent 3 |
| EGN 3365 Materials in Engineering 3 |
| Engineering Electives 6 |
| STA 3033 Introduction to Probability and Statistics for CS or equivalent 3 |

Chemical Engineering (40)

| CHM 2210 Organic Chemistry I 4 |
| CHM 2210L Organic Chemistry I Lab 1 |
| CHM 2211 Organic Chemistry II 3 |
| CHM 2211L Organic Chemistry II |
Electrical Engineering (41)

- EEL 3135 Signals and Systems 3
- EEL 3111 Circuits 3
- EEL 3111L Circuits I Lab 1
- EEL 3112 Circuits II 3
- EEL 3330 Electronics I 3
- EEL 3330L Electronics I Lab 1
- EEL 3396 Introduction to Solid State Devices 3
- EEL 3514 Communication Systems 3
- EEL 3657 Control Systems 3
- EEL 3712 Logic Design I 3
- EEL 3712L Logic Design I Lab 1
- EEL 4304 Electronics II 3
- EEL 4304L Electronics II Lab 1
- EEL 4314 Integrated Circuits and Systems 3
- EEL 4314L Integrated Circuits Lab 1
- EEL 4410 Introduction to Fields and Waves 3
- EEL 4709C Computer Design 3

Mechanical Engineering (40)

- EGN 3311 Statics 3
- EGN 3321 Dynamics 3
- EMA 3702 Mechanics and Materials Science 3
- EMA 3702L Mechanics and Materials Lab 1
- EML 3126 Transport Phenomena 3
- EML 3126L Transport Phenomena Lab 1
- EGN 3343 Thermodynamics I 3
- EML 3262 Kinematics and Mechanisms 3
- EML 4312 Automatic Control Theory 3
- EML 4140 Heat Transfer 3
- EIN 3390 Manufacturing Processes 2
- EIN 3390L Manufacturing Processes Lab 1
- EEL 3003 Electrical Engineering I 3
- EEL 3111L Circuits Lab 1
- EML 4896L Mechanical Lab I 1
- EML 3500 Mechanical Design I 3
- EML 4220 Mechanical Vibrations 3

Biomedical Engineering (28)

- EGM 4580 Principles of Bioengineering 3
- BME 4011 Clinical Rotation for Biomedical Engineering 1
- ELM 4202C Medical Instrumentation 4
- EML 4585 Design of Biomedical Systems and Devices 3
- BME 4090 Design Project Organization 1
- BME 6970 Master’s Thesis 6
- Biomedical Engineering Electives 9
- BME 6936 Biomedical Engineering Seminar 1

The biomedical engineering electives include a 3 credit course specific to each discipline as follows:

For Chemical Engineering majors:
- ECH 6xxx Biochemical Engineering

For Electrical Engineering majors:
- EEL 6075 Biosignal Processing 1
- EMA 5584 Biomaterials Science

The electives must be chosen with the advisor such that the program contains at least 25 credit hours of 5000 level (or higher) courses. Students must maintain a GPA of 3.0 on all graduate level courses. No grade below a “C” will be accepted for graduate level courses.

The Clinical Rotations for Biomedical Engineering courses are scheduled much like a laboratory course, and will meet once per week for 3 hours.

For the BS/MS program, the senior design project is combined with the Master’s project into one capstone project for the combined program. The Design Project Organization course is used to organize the students into teams and assign projects. The projects are supplied by a corporate partner from the Biomedical Engineering Institute. Each project team will have an advising committee which will include a Biomedical Engineering faculty advisor, a representative of the industry partner, and a life sciences or clinical representative. The capstone project is publically defended as required for the Master’s thesis for the biomedical engineering Master’s degree program.

Course Sequences

The sequences are designed so a student has the option to withdraw from the program after eight semesters and graduate with a BS in chemical, electrical, or mechanical engineering and a minor in biomedical engineering by replacing the biomedical engineering elective in the 8th semester with the Senior Design Project for a total of 128 credit hours.

BS in Chemical/MS in Biomedical Engineering

First Semester: (15)
- MAC 2311 Calculus I 4
- CHM 1045 General Chemistry I 3
- CHM 1045L General Chemistry I Lab 1
- Humanities/social science 3
- ENC 1101 Freshman Composition 3
- SLS 1501 Freshman Experience 1

Second Semester: (18)
- MAC 2312 Calculus II 4
- PHY 2048 General Physics I 4
- PHY 2048L General Physics I Lab 1
- CGS 2423 C for Engineers 3
- ENC 1102 Literary Analysis 3
- CHM 1046 General Chemistry II 3
- CHM 1046L General Chemistry II Lab 1

Third Semester: (16)
- MAC 2313 Multivariable Calculus 4
- PHY 2049 Physics II with Calculus 4
- PHY 2049L General Physics II Lab 1
- CHM 2210 Organic Chemistry I 4
- CHM 2210L Organic Chemistry I Lab 1
- Humanities/social science 3

Fourth Semester: (17)
- MAP 2302 Differential Equations 3
- Humanities/social science 3
- CHM 2211 Organic Chemistry II 3
- CHM 2211L Organic Chemistry II Lab 1
- EGN 3343 Thermodynamics I 3
- BSC 1010 General Biology I 3
- BSC 1010L General Biology I Lab 1

Fifth Semester: (17)
- EML 3126 Transport Phenomena 3
- EML 3126L Transport Phenomena Lab 1
- ECH 3123 Thermodynamics II for Chemical Engineering 3
- EGN 3365 Materials in Engineering 3
- EEL 3003 Electrical Engineering I 3
- EEL 3003L Electrical Engineering I Lab 1
- BME 5702 Engineering Analysis of Biological Systems 3
Sixth Semester: (16)
EML 4140 Heat Transfer 3
ECH 4522 Chemical Reactions 3
ECH 4xxx Design of Staged Separations Processes 3
Humanities/social science 3
EGM 4580 Principles of Bioengineering 3
BME 4011 Clinical Rotation for Biomedical Engineering 1

Seventh Semester: (17)
EML 4312 Automatic Control Theory 3
Humanities/social science 3
ECH 4641 Design of Chemical Engineering Processes 3
Engineering elective 3
ELR 4202C Medical Instrumentation 4

Eighth Semester: (12)
STA 3033 Introduction to Probability and Statistics for CS or equivalent 3
ECH 4242L Chemical Engineering Lab I 2
Biomedical engineering elective 3
EML 4585 Design of Biomedical Systems and Devices 3
BME 4090 Design Project Organization 1

Ninth Semester: (12)
BME 6970 Master's Thesis 6
STA 6176 Biostatistics 3
EEL 6075 Biosignal Processing I 3

Tenth Semester: (10)
Life science elective 3
Biomedical engineering elective 3
Engineering elective 3
BME 6936 Biomedical Engineering Seminar 1

BS in Electrical/MS in Biomedical Engineering

First Semester: (15)
MAC 2311 Calculus I 4
CHM 1045 General Chemistry I 3
CHM 1045L General Chemistry I Lab 1
Humanities/social science 3
ENC 1101 Freshman Composition 3
SLS 1501 Freshman Experience 1

Second Semester: (17)
MAC 2312 Calculus II 4
PHY 2048 Physics I with Calculus 4
CGS 2423 C for Engineers or equivalent 3
ENC 1102 Literary Analysis 3
CHM 1046 General Chemistry II 3
CHM 1046L General Chemistry II Lab 1

Third Semester: (17)
MAC 2313 Multivariable Calculus 4
PHY 2049 Physics II with Calculus 4
PHY 2049L General Physics II Lab 1
EGN 3365 Materials In Engineering 3
Humanities/social science 6

Fourth Semester: (17)
MAP 2302 Differential Equations 3
EEL 3135 Signals and Systems 3
Humanities/social science 3
EEL 3111 Circuits I 3
EEL 3111L Circuits I Lab 1
BSC 1010 General Physics I 3
BSC 1010L General Physics I Lab 1

Fifth Semester: (17)
EEL 3514 Communication Systems 3
EEL 3712 Logic Design I 3
EEL 3712L Logic Design I Lab 1
EEL 3303 Electronics I 3
EEL 3303L Electronics I Lab 1
EEL 3112 Circuits II 3
BME 5702 Engineering Analysis of Biological Systems 3

Sixth Semester: (17)
EEL 4709C Computer Design 3
EEL 4304 Electronics II 3
EEL 4304L Electronics II Lab 1
EEL 3396 Introduction to Solid State Devices 3
EEL 3657 Control Systems 3
EGM 4580 Principles of Bioengineering 3
BME 4011 Clinical Rotation for Biomedical Engineering 1

Seventh Semester: (15)
EEL 4314 Integrated Circuits and Systems 3
EEL 4314L Integrated Circuits Lab 1
Humanities/social science 4
Engineering elective 3
ELR 4202C Medical Instrumentation 4

Eighth Semester: (12)
STA 3033 Introduction to Probability and Statistics for CS or equivalent 3
EEL 4410 Introduction to Fields and Waves 3
Biomedical engineering elective 3
EML 4585 Design of Biomedical Systems and Devices 3
BME 4090 Design Project 1

 Ninth Semester: (12)
BME 6970 Master's Thesis 6
STA 6176 Biostatistics 3
EEL 6075 Biosignal Processing I 3

Tenth Semester: (10)
Life science elective 3
Biomedical engineering elective 3
Engineering elective 3
BME 6936 Biomedical Engineering Seminar 1

BS in Mechanical/MS in Biomedical Engineering

First Semester: (15)
MAC 2311 Calculus I 4
CHM 1045 General Chemistry I 3
CHM 1045L General Chemistry I Lab 1
Humanities/social science 3
ENC 1101 Freshman Composition 3
SLS 1501 Freshman Experience 1

Second Semester: (18)
MAC 2312 Calculus II 4
PHY 2048 Physics I with Calculus 4
PHY 2048L General Physics I Lab 1
CGS 2423 C for Engineers or equivalent 3
ENC 1102 Literary Analysis 3
CHM 1046 General Chemistry II 3
CHM 1046L General Chemistry II Lab 1

Third Semester: (17)
MAC 2313 Multivariable Calculus 4
PHY 2049 Physics II with Calculus 4
PHY 2049L General Physics II Lab 1
EGN 3311 Statics 3
EGN 3365 Materials In Engineering 3
Humanities/social science 3

Fourth Semester: (17)
MAP 2302 Differential Equations 3
EGN 3321 Dynamics 3
Humanities/social science 3
EMA 3702 Mechanics and Material Science 3
EMA 3702L Mechanics and Materials Lab 1
BSC 1010 General Biology I 3
BSC 1010L General Biology I Lab 1

Fifth Semester: (17)
EML 3126 Transport Phenomena 3
EML 3126L Transport Phenomena Lab 1
EGN 3343 Thermodynamics I 3
EML 3262 Kinematics and Mechanisms 3
Course Descriptions

Definition of Prefixes
BME-Biomedical Engineering; EEL-Electrical Engineering; EGM-Engineering Mechanics; EMA-Engineering Materials; EML-Mechanical Engineering

BME 4011 Clinical Rotations for Biomedical Engineering (1). Observational and participatory rotations through various divisions and laboratories at Baptist Hospital of Miami and the Miami Cardiac and Vascular Institute. Prerequisite: BME 5xxx (Engineering Analysis of Biological Systems) or permission of the instructor.

BME 4090 Design Project Organization (1). Organization for capstone project, project feasibility study, proposal writing, oral communications, professional ethics, project management. Prerequisite: ELM 4202C. Corequisite: EML 4585.

BME 5702 Engineering Analysis of Biological Systems (3). Quantitative description of physiological systems, from cells to organs. Includes engineering analysis relating design to function. Prerequisite: BSC 1010 or Graduate standing.

BME 5XXX Introduction to Cardiovascular Engineering (3). Quantitative cardiovascular physiology, engineered applied to cardiovascular system: mechanics, materials, transport, and design.

EEL 5071 Bioelectrical Models (3). Engineering models for electrical behavior of nerve and muscle cells, electrode-tissue junctions, volume conductors in tissue and the nervous system as an electrical network. Prerequisite: ELM 4202 or Permission of the instructor. (F)

EEL 5085 Biomedical Engineering (3). Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Applications in imaging and therapy, hazards and safety. Prerequisite: EEL 4410 or Permission of the instructor. (S)

EGM 4580 Principles of Bioengineering (3). Medical instrumentation and design, regulations for medical devices, application of computer in medicine, biomaterials, biocommunications, artificial implants; clinical engineering. Prerequisite: Permission of the instructor.

EGM 4580L Biomedical Engineering Lab (1). Introduction to the principles of biological signal measurements, biological data acquisition and image processing. Prerequisite: Permission of the instructor.

EGM 4581 Biomechanics of Cardiovascular Systems (3). Functional cardiovascular physiology and anatomy; analysis and computation of cardiovascular flow; constitutive properties of tissue; coronary and systemic circulation; flow and stress considerations in cardiovascular assist devices.

Prerequisites: EMA 3702 and EML 3126.

EGM 4582 Engineering Hemodynamics (3). Fluid Mechanics of the circulatory system; rheology of blood; lubrication mechanics. Prerequisite: EML 3126 and EML 3126L.

EGM 4583 Orthopaedic Biomechanics (3). Introduction to the fundamentals of human musculo-skeletal physiology and anatomy and computation of mechanical forces as it applies to orthopaedic biomechanics. Prerequisites: EGN 3321 and EMA 3702.


ELR 4202C Medical Instrumentation Design (4). Concepts of transducers and instrumentation systems: origins of biopotentials; electrical safety; therapeutic and prosthetic devices. Prerequisite: EEL 4304 or permission of the instructor. (SS)

EGM 5584 Biomaterials Science (3). Materials used in prostheses for skin and soft tissue, vascular implant devices, bone repair, and artificial joints. Structure-property relationships for biological tissue. Prerequisites: EGN 3365, and EMA 3702.

EGM 4585 Design of Biomedical Systems and Devices (3). Mechanical design and material choices of various biomedical systems and devices such as cardiovascular assist devices, total artificial heart, pulmonary assist devices, total hip prosthesis and other orthopaedic devices. Prerequisites: EGN 3365, EMA 3702, EML 3126 or permission of the instructor.
Civil and Environmental Engineering

L. David Shen, P.E., T.E., Professor
and Chairperson

Irtishad Ahmad, P.E., Associate Professor

Hector R. Fuentes, P.E., D.E.E. Professor

Albert Gan, Assistant Professor

Nestor Gomez, Assistant Professor

Sylvan C. Jolibois, Jr., Associate Professor

Shonal Laha, P.E. Associate Professor

Charles Nunoo, Instructeur/Undergraduate Advisor

Luis A. Prieto-Portar, P.E. Professor

Wolfgang F. Rogge, Associate Professor

Walter Z. Tang, P.E. Associate Professor

Berrin Tansel, P.E. Associate Professor

LeRoy E. Thompson, P.E. Professor Emeritus

Ton-Lo Wang, P.E. Professor

Fang Zhao, P.E. Associate Professor

Lehman Center for Transportation Research

L. David Shen, Director

Bachelor of Science in Civil Engineering

Common Prerequisites

CHM 1045 General Chemistry I
CHM 1045L General Chemistry Lab I
MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Multivariable Calculus
PHY 2048 Physics with Calculus
PHY 2048L General Physics Lab I
PHY 2049 Physics with Calculus II

Degree Program Hours: 130

The Civil Engineering curriculum provides a background of interconnected subdisciplines of Civil Engineering with the fundamental core subjects of the engineering program. The technical interdisciplinary courses are in the areas of construction, geotechnical, environmental, structures, surveying, transportation, urban planning and water resources.

Civil engineers play an essential role in serving people and the environmental needs of society. These needs relate to shelter, mobility, water, air and development of land and physical facilities.

The academic program is designed to meet the State of Florida’s articulation policy as well as to satisfy criteria outlined by the Accreditation Board for Engineering and Technology (ABET). To qualify for admission to the upper division program, FIU undergraduates must have met all the lower division requirements including CLAST, completed at least 60 semester hours of pre-engineering courses which include ‘C’ for Engineers or Computer Tools for CE, Calculus I & II, Multivariable Calculus, Probability and Statistics, or Evaluation of Engineering Data, Differential Equations, Chemistry-trI & II and Labs, Physics I with Calculus and Lab, Physics II with Calculus with a grade of ‘C’ or better and must be otherwise acceptable into the program. See the example semester by semester program in the following pages.

Effective pursuit of engineering studies requires careful attention to both the sequence and the type of courses taken. It is therefore important, and the college requires, that each student plan a curriculum with the departmental faculty advisor.

All students must comply with the Core Requirements for the University as well as comply with departmental requirements for Social Science, Humanities, and English. Students may find that some courses satisfy both requirements, therefore it is important to contact the department advisor for assistance. The department requires a minimum of 16 semester hours in the area of Humanities and Social Science. The student should refer to the semester by semester program for a list of approved courses. Requirements also include Engineering Economy and Ethics and Legal Issues. All transfer students should refer to the General Information section of the catalog to determine if they have met the requirements for Humanities, Social Science, and English at their previous institution. Students who transfer from a State of Florida community college with an Associate of Arts degree must fulfill departmental requirements for Social Science and Humanities.

A minimum grade of ‘C’ is required in all physics, chemistry and mathematics.

A minimum grade of ‘C’ is required of all Civil Engineering courses and prerequisite courses taken at the University.

Students who have been dismissed for the first time from the University due to low grades, may appeal to the Dean for reinstatement. A second dismissal results in no possibility of reinstatement.

Upper Division Course Objectives

The program of study encourages the development of a broadly educated civil engineering graduate, who can succeed as a productive engineer with a continued professional growth. The courses listed as requirements for the BS degree not only provide the students with mathematical and scientific knowledge, but also include other essentials necessary for a successful engineering career. The courses have been designed to increase student competence in written and oral communication skills as well as develop critical thinking and creative problem solving strategies. Course projects are designed to teach engineering science fundamentals and their applications while providing enriching opportunities for laboratory and computer-based experiences. Furthermore, students are supplied with an understanding of the social and ethical responsibilities of engineers in our society and are encouraged to include sustainable development in all project designs.

Foreign Language Requirement

Students must meet the University Foreign Language Requirement. Refer to the appropriate sections in the Catalog’s General Information for Admission and Registration and Records.

Upper Division Program

The basic upper division requirements for the BSCE degree are as follows:

Engineering Sciences (20)

CGS 2423 ‘C’ for Engineers or

CGN 2420 Computer Tools for CE

CWR 3201 Fluid Mechanics 3

CWR 3201L Fluid Mechanics Laboratory 1

EEL 3003 Electrical Engineering I (Non EE) 3

EGM 3520 Engineering Mechanics of Materials 3

EGM 3520L Materials Testing Lab 1

EGN 3311 Statics 3

EGN 3321 Dynamics 3

EGN 1110C Engineering Drawing 0 (Required unless previously taken)
College of Engineering

Undergraduate Catalog

Civil Engineering Curriculum (41)

CEG 4011 Geotechnical Engineering I 3
CEG 4011L Soil Testing Laboratory 1
CES 3100 Structural Analysis 3
CES 4605 Steel Design 3
CES 4702 Reinforced Concrete Design 3
CGN 4802 Civil Engineering Senior Design Project 3
CWR 3103 Water Resources Engineering 3
ENV 3001 Introduction to Environmental Engineering 3
ENV 3001L Environmental Laboratory 1
SUR 2101C Surveying 3
TTE 4201 Transportation and Traffic Engineering 3
C.E. Elective (min) 3
C.E. Elective (min) 3
C.E. Elective (min) 3
C.E. Elective (min) 3

Combined BS/MS Program

Students who have completed a minimum of 90 hours towards their BS degree and have earned at least a 3.3 GPA on both overall and upper division courses may, upon recommendation from three CEE faculty members, apply to the department to enroll in the combined BS/MS program. Students enrolled in the program may count up to 9 hours of CEE graduate courses as credits for both the BS CEE electives and the MS degree. The BS/MS (3 +2) Program has been designed to be a continuous program. Students in 3 + 2 programs will apply for graduation with the BS and MS at the same time. Students will receive a BS degree and a MS degree on the same date, after requirements for both are completed. The student’s advisor will ensure that appropriate forms are completed, and that students do not apply for BS degree graduation until both BS and MS requirements are finished. Upon the completion of BS degree requirements, students can elect to permanently leave the combined program at any time and earn only the BS degree. Once the BS is granted, students will have the same access requirements to regular graduate programs as any other student. However, the combined MS degree would not be available to those who elect to leave the combined program.

Admission into the combined program does not automatically qualify the students for admission into the MS degree program. To enroll in the MS degree program, the students must apply (in their senior year) to the graduate school and meet all graduate admission requirements.

Undergraduate students enrolled in the program are encouraged to seek employment with a department faculty to work as student assistants on sponsored research projects. The students will be eligible for graduate assistantships upon admission into the graduate school.

For each of the graduate courses counted as credits for both BS and MS degrees, a minimum grade of B is required. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the undergraduate advisor.

Students interested in the program can consult with the undergraduate advisor on their eligibility for the program. The students should also set up an appointment with the graduate coordinator to learn about the graduate program and available courses before completing the application form and submitting it to the undergraduate advisor. Applicants will be notified by the department on the decision of their application.

Civil and Environmental Engineering Program

Students may have a different sequence of courses as arranged with their advisor. For a complete program information, students should refer to the Program Summary Sheet available in the Department.

First Semester: (15)
MAC 2311 Calculus I 4
CHM 1045 General Chemistry I 3
CHM 1045L General Chemistry I Lab 1
SLS 1501 Freshman Experience 1
ENC 1101 Freshman Composition 3
EGN 2030 Ethics & Legal Issues 3

Second Semester: (16)
MAC 2312 Calculus II 4
ENC 1102 Literary Analysis 3
PHY 2048 Physics with Calculus 3
PHY 2048L General Physics Lab I 1
CGS 2423 ‘C’ for Engineers’ or
CGN 2420 Computer Tools for CE 3
Tech Elective 2

Suggested Summer Term: (11)
Social Science elective (ECO 2013 or ECO 2023) 3
MAC 2313 Multivariable Calculus 4
CHM 1046 General Chemistry II 3
CHM 1046L General Chemistry Lab II 1
EGN 1110C Engineering Drawing (Required unless previously taken)

Third Semester: (15)
PHY 2049 Physics with Calculus II 3
SSI 3240 World Prospect & Issues 3
MAP 2302 Differential Equations 3
ARH 2050 Art History I 3
or
ARH 2051 Art History II 3
or
THE 2000 Theatre Appreciation 3
or
CRW 2001 Creative Writing 3
or
MUIH 1001 Music Appreciation 3
Tech Elective 3

Fourth Semester: (15)
EGN 3311 Statics 3
WOH 2001 World Civilization 3
ANT 4273 Law & Culture 3
or
ECS 3003 Comparative Econ Systems 3
or
INR 4283 International Relations 3
or
HUM 4191 Cultural Heritage 3
EEL 3003 Electrical Engineering I 3
SUR 2101C Surveying 3

Fifth Semester: (13)
STA 3033 Introduction to Probability and Statistics for CS 3
or
EIN 3235 Evaluation of Engineering Data 3
EGN 3321 Dynamics 3
EGM 3520 Engineering Mechanics of Materials 3
EGM 3520L Engineering Mechanics of Material Lab 1
ENC 3211 Technical Writing 3

Sixth Semester: (14)
CWR 3201 Fluid Mechanics 3
CWR 3201L Fluid Mechanics Lab 1
CES 3100 Structural Analysis 3
ENV 3001 Introduction to Environmental Engineering 3
ENV 3001L Environmental Engineering Lab 1
BIE 3354 Engineering Economy 3

Seventh Semester: (16)
CES 4605 Steel Design 3
CEG 4011 Geotechnical Engineering I 3
CEG 4011L Soil Testing Laboratory 1
TTE 4201 Transportation & Traffic Engineering 3
CE Elective 3
CE Elective 3

Eighth Semester: (15)
CWR 3101 Water Resources 3
CES 4702 Reinforced Concrete Design 3
CGN 4802 Civil Engineering Senior Design Project 3
CE Elective 3
CE Elective 3

Student are required to either complete the CGN 4980 CE Seminar course or pass the FE Exam.

Suggested Electives (other electives may be chosen, as approved by Department Advisor):
CES 4101 Intermediate Structural Analysis 3
CEG 4012 Geotechnical Engineering II 4
CCE 4001 Heavy Construction 3
CGN 4321 GIS Application in Civil Engineering and Environmental Engineering 3
TTE 4804 Geometric Design of Highways 3

Electives for Environmental Engineering Option
ENV 4101 Elements of Atmospheric Pollution 3
ENV 4330 Hazardous Waste Assessment and Remediation 3
ENV 4551 Sewerage and Wastewater Treatment 4
ENV 4560 Reactor Design 3
ENV 4513 Reactions in Environmental Engineering Systems 3

Electives for Construction Engineering Option
CCE 4001 Heavy Construction 3
CCE 5035 Construction Engineering 3
CCE 5505 Computer Integrated Construction Engineering 3
CGN 4321 GIS Application in Civil & Environmental Engineering 3

Note: Required credits towards graduation are 130 credit hours. Due to variation in the number of transfer credits awarded, technical electives may be required. Technical electives must be approved by the Advisor.

Course Descriptions

Definition of Prefixes
CCE-Civil Construction Engineering; CEG-Engineering, General; CES-Civil Engineering Structures; CGN-Civil Engineering; CWR-Civil Water Resources; EGM-Engineering, Mechanics; EGN-Engineering, General; ENV-Engineering, Environmental; SUR-Surveying and Related Areas; TTE-Transportation and Traffic Engineering

CCE 4001 Heavy Construction (3). Contractor's organization, contracts, services, safety, planning and scheduling. Equipment and their economics. Special project applications, cofferdams, dewatering, river diversions, tunneling. Prerequisite: CES 3100. (F)

CCE 5035 Construction Engineering Management (3). Course will cover construction organization, planning and implementation; impact and feasibility studies; contractual subjects; liability and performance; the responsibility of owner, contractor and engineer. Prerequisite: Permission of the instructor.

CCE 5055 Computer Integrated Construction Engineering (3). Course covers the discussion of available software related to construction engineering topics; knowledge based expert systems and their relevance to construction engineering planning and management. Prerequisite: Permission of the instructor.

CEG 4011 Geotechnical Engineering I (3). Engineering geology, soil properties; stresses in soils; failures; criteria; consolidation and settlement; compaction, soil improvement and slope stabilization. Prerequisite: CWR 3201 and L, EGM 3520, and L, CHM 1046 and PHY 2049. (F,SS)

CEG 4011L Soil Testing Laboratory (1). Laboratory experiments to identify and test behavior of soils and rocks. Prerequisite: CWR 3201, CWR 3201L, EGM 3520L, EGM 3520. Corequisites: CEG 4011. (Lab fees assessed). (F,SS)

CEG 4012 Geotechnical Engineering II (4). Principles of foundation analysis and design: site improvement for bearing and settlement, spread footings, mat foundations, retaining walls, cofferdams, piles, shafts, caissons, tunnels, and vibration control.

Computer applications. Prerequisite: CES 4702, CEG 4011 and L. (F,SS)

CES 3100 Structural Analysis (3). To introduce the student to the basic concepts and principles of structural theory relating to statically determinate beams, arches, trusses and rigid frames, including deflection techniques. Prerequisite: EGM 3520 with a grade of "C" or better. (F,SS)

CES 4101 Indeterminate Structural Analysis (3). To introduce the student to the basic concepts and principles of structural theory relating to statically indeterminate beams, trusses and rigid frames; including Slope Deflection, Moment Distribution, and Matrix Methods. Prerequisite: CES 3100 with a grade of 'C' or better. (S)

CES 4605 Steel Design (3). The analysis and design of structural elements and connections for buildings, bridges, and specialized structures utilizing structural steel. Both elastic and plastic designs are considered. Prerequisite: CES 3100. (F,SS)

CES 4702 Reinforced Concrete Design (3). The analysis and design of reinforced concrete beams, columns, slabs, retaining walls and footings; with emphasis corresponding to present ACI Building Code. Introduction to prestressed concrete is given. Prerequisite: CES 3100 with a grade of 'C' or better. (F,SS)

CGN 2420 Computer Tools for Civil Engineers (3). Introduction to common civil engineering software such as CAD, COGO, project bidding programs, GIS, and others. Prerequisite: Permission of the undergraduate advisor.

CGN 3949 Co-Op Work Experience (1-3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

CGN 4321 GIS Applications in Civil and Environmental Engineering (3). Introduction to the basics of geographic information systems, their software and hardware, and their applications in civil and environmental engineering, landscape architecture, and other related fields. Prerequisites: CGS 2420 or CGS 2423, SUR 2101C and consent of instructor. (F)

CGN 4802 Civil Engineering Senior Design Project (3). Compulsory course
for all senior students, to experience the design of a practical project by utilizing knowledge learned from previous courses for presenting a solution. Done under the supervision of a faculty member and professional engineer. Prerequisite: EGN 1110C or demonstrate CAD proficiency. (F,S)

CGN 4930 Special Topics in Civil Engineering (1-3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

CGN 4949 Co-Op Work Experience (1-3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and report required.

CGN 4980 Civil Engineering Seminar (1). Basic principles and applications of civil engineering, including structural, transportation, environmental, geotechnical, construction, and water resources engineering for civil engineering students. Prerequisite: Permission from undergraduate advisor.

CWR 3103 Water Resources Engineering (3). Hydrology, probability, ground and surface water studies. Closed conduit flow and hydraulic machinery. Prerequisites: CWR 3201 and STA 3033. (F,S)

CWR 3201 Fluid Mechanics (3). A study of the properties of fluids and their behavior at rest and in motion. Continuity, momentum, and energy principles of fluid flow. Prerequisite: EGN 3321. Corequisite: CWR 3201L. (F,S)

CWR 3201L Fluid Mechanics Laboratory (1). Application of fluid mechanics principles in the laboratory. Experiments in surface water, groundwater and pipe flow. Corequisite: CWR 3201. (Lab fees assessed). (F,S)

EGM 3520 Engineering Mechanics of Materials (3). Analysis of axial, torsional, bending, combined stresses, and strains. Plotting of shear, moment and deflection diagram with calculus applications and interpretations. Prerequisites: MAC 2313, MAP 2302 and EGN 3311 with a grade of 'C' or better. (F,S,SS)

EGM 3520L Materials Testing Laboratory (1). Introduction to measurements of basic mechanical properties of materials. Experiments include axial tension, compression, torsion, flexure, and the response of simple structural elements. Prerequisites or Corequisites: EGM 3520, MAC 2312 and EGN 3311. (Lab fees assessed). (F,S)

EGN 1100C Engineering Drawing (3). Introduction to elementary design concepts in engineering, principles of drawing, descriptive geometry, pictorials and perspectives and their computer graphics counterpart. (F,S,SS)

EGN 2030 Ethics and Legal Aspects in Engineering (3). Codes of ethics, professional responsibilities and rights, law and engineering contracts, torts, evidence. (F,S,SS)

EGN 3311 Statics (3). Forces on particles, equilibrium of forces, moments, couples, centroids, section properties, and load analysis of structures. Prerequisites: MAC 2312 and PHY 2048. (F,S,SS)

ENV 3001 Introduction to Environmental Engineering (3). Introduction to environmental engineering problems; water and wastewater treatment, air pollution, noise, solid and hazardous wastes. Prerequisites: CHM 1046 and L, PHY 2049, MAC 2312 and permission of undergraduate advisor. Corequisite: ENV 3001L. (F,S)

ENV 3001L Environmental Laboratory (1). A corequisite to ENV 3001. Practical applications of the theory learned in the course and experience in detecting and measuring some environmental problems. Prerequisites: CHM 1046 and CHM 1046L, PHY 2049, MAC 2312 and permission of undergraduate advisor. Corequisite: ENV 3001. (Lab fees assessed). (F,S)

ENV 3949 Co-Op Work Experience (3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor.

ENV 4024 Bioremediation Engineering (3). Biotransformation of subsurface contaminants in gaining recognition as a viable treatment tool. This course provides students with quantitative methods required to design bioremediation systems. Prerequisite: Permission of the instructor.

ENV 4101 Elements of Atmospheric Pollution (3). The air pollution problem, causes, sources, and effects. Historical development. Physical, political, and economic factors in its control. Prerequisites: CWR 3201 and CWR 3201L or EML 3126 and 3126L, ENV 3001 and ENV 3001L.

ENV 4330 Hazardous Waste Assessment and Remediation (3). Generation, transport, treatment and disposal of hazardous waste; risk assessment and treatment of contaminated media. Prerequisite: One year of General Chemistry.

ENV 4351 Solid Waste Management (3). Sources, amounts and characteristics of solid wastes; municipal collection systems; method of disposal; energetic consideration in the recovery and recycle of wastes. Prerequisites: PHY 2049, and CHM 1046 and CHM 1046L.

ENV 4401 Water Supply Engineering (3). Quantity, quality, treatment, and distribution of drinking water. Prerequisites: CWR 3201 and CWR 3201L, ENV 3001 and ENV 3001L. Corequisite: ENV 4401L.

ENV 4401L Water Laboratory (1). Laboratory exercises in the physical, chemical, and bacteriological quality of potable water. Prerequisites: CWR 3201, ENV 3001 and ENV 3001L. Corequisite: ENV 4401. (Lab fees assessed).

ENV 4513 Reactions in Environmental Engineering Systems (3). A practical basis for applying microbial and physicochemical principles to understand reactions occurring in natural and engineered systems including water/wastewater treatment processes. Prerequisite: Permission of the instructor.

ENV 4551 Sewerage and Wastewater Treatment (3). Collection and transportation of wastewater, design of sanitary and storm sewers. Physical, chemical, and biological principles of wastewater treatment. Prerequisite: CWR 3201 and CWR 3201L, ENV 3001 and ENV 3001L. Corequisite: 4551L.

ENV 4551L Wastewater Laboratory (1). Laboratory exercises in the physical, chemical, and bacteriological quality of raw and treated wastewaters. Prerequisites: CWR 3201 and CWR 3201L, ENV 3001 and ENV 3001L. Corequisite: ENV 4551. (Lab fees assessed).

ENV 4560 Reactor Design (3). A theoretical and practical basis for reaction kinetics to understand multi-
phase reactions, analysis and design of batch and continuous flow reactors.

ENV 4930 Special Topics in Environmental Engineering (1-4). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

ENV 4949 Co-Op Work Experience (3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

SUR 2101C Surveying (3). Computations and field procedures associated with the measurement of distances and angles using tape, level, transit, EDMs, and total station. Laboratory is included with field measurements. Prerequisite: EGN 1110C. (F,S)

TTE 4201 Transportation and Traffic Engineering (3). Transportation characteristics; transportation planning, traffic control devices, intersection design, network design, research. Prerequisites: STA 3033 and SUR 3101C. (F,S,SS)

TTE 4804 Geometric Design of Highways (3). Parameters governing geometric design of highways; curve superelevation, widening of highway curves, intersection design; highway interchanges, use of AASHTO design guidelines. Prerequisite: TTE 4201.

TTE 4930C Transportation Seminar (1-3). Oral presentations made by students, guests, and faculty members on current topics and research activities in traffic and transportation engineering. Prerequisite: TTE 4201.
Electrical and Computer Engineering

Kang Yen, Professor and Chairperson
Malek Adjouadi, Associate Professor
Jean Andrian, Associate Professor,
Graduate Program Director
Tadeusz Babij, Professor
Armando Barreto, Associate Professor
Frank Candecia, Assistant Professor
Thomas Gilbar, Instructor and
Undergraduate Advisor
Malcolm Heimer, Associate Professor
W. Kinzy Jones, Professor
Grover Larkins, Associate Professor
Osama Mohammed, Professor
Malathi Palaniappa, Visiting Instructor
Niki Pissinou, Professor and Associate Dean
Gustavo Roig, Associate Professor
Pierre Schmidt, Professor and
Associate Chairperson
James Story, Professor and Associate Dean
Frank Urban, Associate Professor
Yuriy A. Vlasov, Assistant Professor
Subbarao Wunnava, Professor

Bachelor of Science in Electrical Engineering

Common Prerequisites
CHM 1045 General Chemistry I
CHM 1045L General Chemistry Lab I
MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Multivariable Calculus
MAP 2302 Differential Equations
PHY 2048 Physics with Calculus I
PHY 2049 Physics with Calculus II
PHY 2049L General Physics Lab I

Degree Program Hours: 128

The Electrical Engineering curriculum provides an emphasis toward engineering concepts and design in the varied and rapidly expanding fields of electrical engineering. Students applying to Electrical Engineering should have good communication skills in English (oral and written) and exhibit logical thinking, creativity, imagination, and persistence. They should have proven academic excellence in mathematics, chemistry, and physics.

At the undergraduate level, the basic required program of instruction in fundamental theory and laboratory practice is balanced by a broad range of electives in such fields as computers, communication systems, control systems, power systems, and integrated electronics. Students, with the counsel and guidance of faculty advisers, design their electives program around their own special interest.

Any course taken without the required prerequisites and corequisites will be dropped automatically before the end of the term, resulting in a grade of “DR” or “DF”.

Students must earn a minimum grade of “C-” and a minimum GPA of 2.0 in all EEL courses required for graduation.

Students who have been dismissed for the first time from the University due to low grades, may appeal to the department for reinstatement. A second dismissal results in no possibility of reinstatement.

5 Year Accelerated Combined BS in Electrical Engineering and MS in Biomedical Engineering Program

The Electrical Engineering Department and the Biomedical Engineering Institute at FIU after a 5 year, 150 credit combined BS/MS degree program. Students who wish to be admitted must have completed at least 90 credits toward their BS degree and have earned at least a 3.25 GPA in those courses required for a BS in Electrical Engineering with a minor in Biomedical Engineering. Requirements for this program differ from the regular Electrical Engineering program, so please see an advisor and/or the Biomedical Engineering section of this catalog.

The BS/MS (3 +2) Program has been designed to be a continuous program. Students in 3 + 2 programs will apply for graduation with the BS and MS at the same time. Students will receive a BS degree and a MS degree on the same date, after requirements for both are completed. The student’s advisor will insure that appropriate forms are completed, and that students do not apply for BS degree graduation until both BS and MS requirements are finished. Upon the completion of BS degree requirements, students can elect to permanently leave the combined program at any time and earn only the BS degree. Once the BS is granted, students will have the same access requirements to regular graduate programs as any other student. However, the combined MS degree would not be available to those who elect to leave the combined program.

Lower Division Preparation

Lower division requirements include at least 60 hours of pre-engineering credits (see the Undergraduate Studies portion of this catalog for specific requirements). These courses include C programming language (EEL 2880 for Freshman and students who are transferring in without C), Calculus I, II and III, Differential Equations, Chemistry I and Lab, Calculus based Physics I & II and Labs, 2 semesters of English composition and 2 other Gordon rule writing courses, and Engineering Graphics or CAD (unless previously taken in high school). A minimum grade of “C” is required in all writing courses, all calculus courses, differential equations, both physics classes, and chemistry. In addition, both transfer students and FIU freshman must take a combination of social sciences and humanities that fulfill the state general education requirements and whose topics also complement the goals and objectives of the College of Engineering (including economic, environmental, political, and/or social issues. See semester-by-semester sample program for courses that fulfill this requirement). Students who have not satisfactorily met the social science/humanities requirements may be required to take additional (advanced) humanities/social science course(s).

In addition students may transfer a pre-approved engineering Statics course as long as they have met the proper prerequisites for the course (speak to an FIU engineering advisor to see if your community college offers an acceptable statics course). Students must make up any missing prerequisites before they will be allowed to begin taking certain engineering courses (see course listing for required pre/co-requisites).

Other Requirements

Students must meet the University Foreign Language Requirement, must pass the CLAST or have it waived, must have a minimum 2.0 GPA, must complete all required classes, and must otherwise meet all of the state and university requirements in order to graduate.

Upper Division Course Objectives

The courses listed as requirements for a BS degree not only supply the students with mathematical and scientific
knowledge, but also supply other essentials for a successful engineering career. Therefore, our courses have been designed to increase student competence in written and oral communication skills as well as supply an understanding of social, ethical, economic, and safety considerations for engineers. Furthermore, course projects will be designed to supply appropriate computer-based experience with software tools as well as basic programming skills in order for the students to utilize computers for circuit analysis, mathematical calculations, and other engineering applications.

**Upper Division Program**

The program includes Dynamics, Materials of Engineering, Signals and Systems, Engineering Economy, math and/or science electives, and the following:

### Electrical Engineering

#### Curriculum (Major only): (53)

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*Note: If not previously taken in high school:*

- EGN 1110C Engineering Drawing 3

#### Fourth Semester: (13)

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### Bachelor of Science in Computer Engineering

#### Common Prerequisites

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### Degree Program Hours: 128

The curriculum structure provides an in-depth study of the major areas of computer engineering by providing a strong mathematical foundation, a balanced view of hardware and software design and application techniques. The goals and objectives of the program are to train students in the skills of the electrical engineer specialized in the design and application of both computer hardware and software. Any course taken without the required prerequisites and corequisites will be automatically dropped before
Undergraduate Catalog

College of Engineering

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the end of the term, resulting in a grade of 'DR' or 'DF'.

Students must earn a minimum grade of 'C' in all calculus, physics, chemistry and differential equations classes and a 'C-' in Discrete Math, all CEN, COP, and EEL courses required for graduation. Also, a student must have a minimum GPA of 2.0 in all EEL courses. Computer Engineering students must take either Multivariable Calculus or Numerical Analysis and receive a minimum grade of "C".

Students who have been dismissed for the first time from the University due to low grades, may appeal to the department for reinstatement. A second dismissal results in no possibility of reinstatement.

Sections titled "Other Requirements" and "Lower Division Preparation" in the Electrical Engineering section are also requirements for the Computer Engineering students. Knowledge of 'C' is required as a prerequisite for the computer software curriculum and Discrete Math.

Upper Division Course Objectives

The courses listed as requirements for a BS degree not only supply the students with mathematical and scientific knowledge, but also supply other essentials for a successful engineering career. Therefore, our courses have been designed to increase student competence in written and oral communication skills as well as supply an understanding of social, ethical, economic, and safety considerations for engineers. Furthermore, course projects will be designed to supply appropriate computer-based experience with software tools as well as basic programming skills in order for the students to utilize computers for circuit analysis, mathematical calculations, and other engineering applications.

Upper Division Program

The upper division program includes Discrete Math, Engineering Economy, Signals and Systems, and the following:

Computer Software Curriculum: (18)

CEN 4010 Introduction to Software Engineering 3
COP 3337 Intermediate Programming 3
COP 4338 Programming III 3
COP 3530 Data Structures 3
COP 4610 Operating Systems Principles 3

COP 4225 Advanced Unix Programming 3
or
COP 4226 Advanced Windows Programming 3

Electrical Engineering Curriculum: (26)

EEL 3111 Circuits I 3
EEL 3111L Circuits Lab I 1
EEL 3112 Circuits II 3
EEL 3303 Electronics I 3
EEL 3303L Electronics Lab I 1
EEL 3514 Communication Systems 3
EEL 3657 Control Systems 3
EEL 4304 Electronics II 3
EEL 4304L Electronics II Lab 1
EEL 4314 Integrated Circuits 3
EEL 4314L Integrated Circuits Lab 1
EEL 4611L Systems Lab 1

Computer Hardware Curriculum: (15)

EEL 3712 Logic Design I 3
EEL 3712L Logic Design Lab I 1
EEL 4010 Senior Design I: Ethics, Communications and Constraints 2
EEL 4101 Senior Design II: Project Implementation 2
EEL 4709C Computer Design 3
EEL 4746 Microprocessors 3
EEL 4746L Microprocessors Lab 1

Computer Engineering Program

Freshman to Senior

First Semester: (15)

MAC 2311 Calculus I 4
CHM 1045 General Chemistry I 3
CHM 1045L Gen. Chemistry Lab I 1
ENC 1101 Freshman Composition 3
SLS 1501 Freshman Experience 1
EGN 1002 Engineering Orientation II

Second Semester: (13 or 17)

MAC 2312 Calculus II 4
ENC 1102 Literary Analysis 3
ARH 2050 Art History I 3
or
ARH 2051 Art History II 3
or
THE 2000 Theatre Appreciation 3
or
CRW 2001 Creative Writing 3
or
MUH 1011 Music Appreciation 3
or
Advanced Modern Language 3

PHY 2048 Physics with Calculus I 4
Note: If student does not have a strong C++ programming background:
COP 2210 and Lab 4

Third Semester: (9-12)

MAD 2104 Discrete Math 3
COP 3337 Intermediate Programming 3
ECO 2013 Principles of Macroeconomics
or
ECO 2023 Principles of Microeconomics
or
EVR 1017 Global Environment and Society 3

Note: If not previously taken in high school:
ECS 1110 Engineering Drawing 3

Fourth Semester: (16)

PHY 2049 Physics with Calculus II 4
PHY 2049L General Physics Lab II 1
MAP 2302 Differential Equations 3
COP 4338 Programming III 3
SSI 3240 World Prospects and Issues 3
Math/Science Elective 3

Fifth Semester: (16)

WOH 2001 World Civilization 3
ANT 4273 Law & Culture 3
or
ECS 3003 Comparative Econ Systems 3
or
INR 4283 International Relations, Development, and the Third World 3
EEL 3135 Signals and Systems 3
EEL 3111 Circuits I 3
EEL 3111L Circuits Lab I 1
EGN 3311 Statics 3

Sixth Semester: (16)

EIN 3354 Engineering Economy 3
EEL 3112 Circuits II 3
EEL 3514 Communications 3
EEL 3712 Logic Design I 3
EEL 3712L Logic Design Lab I 1
COP 3530 Data Structures 3

Seventh Semester: (16 or 17)

EEL 3303 Electronics I 3
EEL 3303L Electronics I Lab 1
COP 4610 Operating Systems 3
MAC 2313 Multivariable Calculus 4
or
MAD 3401 Numerical Analysis 3
EEL 3657 Control Systems 3
EEL 4709 Computer Design 3

Eighth Semester: (13)

EEL 4304 Electronics II 3
EEL 4304L Electronics II Lab 1
EEL 4746 Microcomputer I 3
EEL 4746L Microcomputers I Lab 1
EEL 4010 Senior Design I: Ethics, Communications, and Constraints 2
EEL 3112 Circuits II (3). Application of operational methods to the solution of electrical circuit effect of poles and zeroes on the response and transfer function of electrical networks. Laplace and Fourier transforms; network parameters. Prerequisites: EEL 3111, MAP 2302, EEL 3135, C Language. (S, S, S)

EEL 3135 Signals and Systems (3). Use of Fourier analysis in electrical and electronic systems. Introduction to probability theory, linear algebra and complex variables. Prerequisites: MAP 2302. (F, S)

EEL 3160 Computer Applications in Electrical Engineering (3). Interactive techniques of computers to simulate and design electrical engineering circuits and systems. Prerequisites: Permission of the instructor and C.

EEL 3303 Electronics I (3). Introductory electronics course dealing with the properties of basic electronic devices such as diodes, transistors, Fets, SCRs, etc., and their circuit applications. Prerequisites: EEL 3111 and C. Corequisites: EEL 3303L, (F, S, S)

EEL 3303L Electronics I Laboratory (1). Designing, building, and testing electronic circuits which use transistors and field effect transistors. Prerequisite: EEL 3111L. Corequisite: EEL 3303. (F, S, S)

EEL 3396 Introduction to Solid State Devices (3). Introduction to the physics of semiconductors; charge carrier statistics and charge transport in crystalline solids. Basic operations of solid state devices including p-n junction diode, and the bipolar junction transistor. Prerequisite: MAP 2302. Corequisite: EEL 3111. (F, S)

EEL 3514 Communication Systems (3). An introductory course in the field of analog communication systems. Transmitters, receivers, and different modulation and demodulation techniques are studied. A basic treatment of noise is also included. Prerequisite: EEL 3135. Corequisite: EEL 3112. (F, S)


EEL 3712 Logic Design I (3). Boolean Algebra. Binary number systems. Combinational logic design using SSI, MSI and LSI. Sequential logic design. Corequisite: EEL 3712L, EEL 3111. (S, S, S)

EEL 3712L Logic Design I Lab (1). Laboratory experiments, including gates, combinational networks, SSI, MSI, LSI, and sequential logic design. Corequisite: EEL 3111 and EEL3712. (S, S, S)

EEL 4006 Development of Dynamic Web Sites (3). Techniques for the development of dynamic web sites, which will generate individualized web pages, according to data supplied by the user or retrieved from data stores available to the web server. Prerequisites: EEL 2880 or permission of instructor.

EEL 4010 Senior Design I: Ethics, Communications, and Constraints (2). Capstone part I: Professional ethics, oral communications, project feasibility study, proposal writing, system design methodology, human factors, intellectual property, liability and schedules. Prerequisite: Senior standing. (S, F, S, S)

EEL 4011 Senior Design II: Project Implementation (2). Design of a complete EE system including use of design methodology, formulation, specifications, alternative solutions, feasibility, economic, reliability, safety, ethics, and social impact. Prerequisites: EEL 4010. (S, F, S, S)

EEL 4015 Electrical Design in Buildings I (3). Application of electrical codes and regulations. Design of loads, circuits, surge protectors, feeders, panels, and breakers. Prerequisites: EEL 3111 and EEL 3111L.

EEL 4016 Electrical Design in Buildings II (3). Electrical design of industrial buildings, size and design of distribution rooms, switchboards, transformers, bus ducts, motor control centers, starters, voltage drop calculations, lighting distribution. Prerequisite: EEL 4015.

EEL 4140 Filter Design (3). Approximation techniques. Active RC second order modules. Low pass filters, bandpass filters, high pass filters, notch filters are studied in detail. Sensitivity and high order filters. Design and laboratory implementation. Prerequisites: EEL 3657, EEL 4304, or permission of the instructor.
EEL 4213 Power System I (3). Introductory course to power systems components; transformer, induction machines, synchronous machines, direct current machines, and special machines. Prerequisite: EEL 4410. Corequisites: EEL 3112 and EEL 4213L. (F.SS)

EEL 4213L Energy Conversion Lab (1). Operation, testing, and applications of energy conversion machines including AC and DC motors and generators. Starts with experiments on magnetic circuits and transformers. Prerequisite: EEL 4410. Corequisite: EEL 4213L. (F.SS)

EEL 4214 Power Systems II (3). Transmission line models, the bus admittance matrix, load flow studies and solution techniques, economic dispatch with and without losses, computer applications. Prerequisite: EEL 4213.

EEL 4215 Power Systems III (3). Short circuit calculations, symmetrical and unsymmetrical fault analysis, transient stability and dynamic studies as well as power system control. Computer applications. Prerequisite: EEL 4214.

EEL 4216 Power Electronics (3). Power semiconductor devices, power supplies, DC choppers, AC voltage controller, power inverter, AC and DC drives. Prerequisites: EEL 4213 and EEL 4304.

EEL 4304 Electronics II (3). Second course in electronics with particular emphasis on equivalent circuit representation and analysis of electronic-analog and switching circuits and systems, their frequency response and behavior under feedback control. Prerequisites: EEL 3112 and EEL 3303. Corequisite: EEL 4304L. (F.S)

EEL 4304L Electronics II Laboratory (1). Design and measurement experiments of advanced electronics, including applications of integrated circuits. Prerequisite: EEL 3303L. Corequisite: EEL 4304. (F.S)

EEL 4314 Integrated Circuits and Systems (3). Continuation of Electronics II with major emphasis on design and applications of integrated circuits. Includes design of analog, control, communication and digital oriented electronic systems. Prerequisite: EEL 4304. Corequisite: EEL 4314L. (F.S,SS)

EEL 4314L Integrated Circuits Laboratory (1). Laboratory experiments in integrated circuits. Includes design of filters, analog systems, A/D and D/A systems. Prerequisite: EEL 4304L. Corequisite: EEL 4314. (F.S,SS)

EEL 4410 Introduction to Fields and Waves (3). Static electric field, the steady electric current, magnetic field of ferro magnetic materials. The relation between field and circuit theory waves and wave polarization, reflection, refraction, and diffraction. Prerequisite: EEL 3111. (F.S,SS)

EEL 4461C Antennas (3). Introduction to linear antennas, linear arrays and aperture antennas. Far field pattern calculation and measurement techniques. Prerequisite: EEL 3514 or permission of the instructor.


EEL 4515 Advanced Communication Systems (3). Advanced senior level course designed for those students who desire to enhance their engineering knowledge in communication systems. State-of-the-art techniques in FM, digital communication, phase locked loops, noise treatment, threshold improvement, etc. Prerequisites: EEL 3514, EEL 4304 or permission of the instructor.

EEL 4611 Control Systems II (3). Design by Root-Locus, Bode plots, and Buillin-Truxal approach; characteristics of some typical industrial controllers and sensors. Computer simulation and other modern topics are included. Prerequisite: EEL 3657 or permission of the instructor.

EEL 4611L Systems Laboratory (1). Laboratory experiments in various systems. Includes position and velocity control systems, zeroth order, first order, and second order systems. Communication Systems. Corequisites: EEL 3657 and EEL 3514. (S,F)

EEL 4709C Computer Design (3). Computer architecture, arithmetic units, RAM, ROM, tape, disk, CPU, memory systems, data, input/output devices. Distributed and centralized control. Prerequisites: EEL 3712 and EEL 3712L. (F.SS)

EEL 4713 Digital Logic Design II (3). Upper division course in system design using state-of-the-art digital integrated circuits and concepts leading to realization of practical digital electronic systems. Prerequisite: EEL 4746 or permission of the instructor.


EEL 4746L Microcomputers I Laboratory (1). Hands-on design experience with microcomputer systems and applications including buses, interfaces, and in-circuit emulation. Prerequisite: EEL 4709C. Corequisite: EEL 4746. (F)

EEL 4747 Microcomputers II (3). Design of interfacing schemes of microcomputers such as video, disk, etc., and state-of-the-art hardware and software features of advanced microprocessors' architectures, real-time systems, hardware-software trade-offs. Prerequisite: EEL 4746 or permission of the instructor.

EEL 4798 Special Topics in Computer Engineering (1-3). Special topics in computer engineering not covered in other courses. Prerequisite: Permission of the instructor.

EEL 4905 Individual Problems in Electrical Engineering (1-3). Selected problems or projects in the student's major field of electrical engineering. It can be extended to a maximum of six hours. Student works independently with a minor advisement from designated faculty member. Prerequisites: Senior level and permission of the instructor.

EEL 4930 Special Topics in Electrical Engineering (1-3). Special topics in electrical engineering not covered in other courses. Prerequisite: Permission of the instructor.

EEL 4949 Co-Op Work Experience (3). Practical co-op engineering work under approved industrial supervision. Prerequisite: EEL 3949. (F.S,SS)

EGN 1002 Engineering Orientation (2). Introduction to aspects of the engineering profession. Computer tools and
basic engineering science. Team-based engineering projects. (F,S)

ELR 4202C Medical Instrumentation Design (4). Concepts of transducers and instrumentation systems; origins of biopotentials; electrical safety; therapeutic and prosthetic devices. Prerequisite: EEL 4304 or permission of the instructor.
Industrial and Systems Engineering
Shih-Ming Lee, Associate Professor, Chairperson
Martha A. Centeno, Associate Professor
Chin-Sheng Chen, Professor
Joe Chow, Associate Professor
Ronald Giachetti, Assistant Professor
Arthur S. Gloster, Professor
Gordon R. Hopkins, Professor
Khokiat Kengskool, Associate Professor
Richard Linn, Associate Professor
Kia Makk, Professor
Marc L. Resnick, Associate Professor
Mario Sanchez, Instructor and Advisor

Bachelor of Science in Industrial and Systems Engineering

Degree Program Hours: 128

As defined by the Institute of Industrial Engineers, Industrial Engineering is concerned with the design, improvement and installation of integrated systems of people, materials, information, equipment and energy. A major distinction between industrial engineering and other branches of engineering is that the industrial engineer must consider not only the behavior of inanimate objects as they are governed by physical laws but also the behavior of people as they operate together in organizations, and as such it is often called the people oriented engineering discipline.

The program emphasizes areas of simulation and modeling, manufacturing systems, human factors/ergonomics, and engineering management. It is also soundly based in the traditional industrial engineering areas such as work measurement and simplification, probability and statistics, and facility and workplaces design.

Combined BS/MS Program

Students who have completed a minimum of 90 hours towards their BS degree and have earned at least a 3.3 GPA on both overall and upper division courses may, upon recommendation from three ISE faculty members, apply to the department to enroll in the combined BS/MS program. Students enrolled in the program may count up to 9 credit hours of ISE graduate courses as credits for both the BS ISE electives and the MS degree. The BS/MS (3 + 2) Program has been designed to be a continuous program. Students in 3 + 2 programs will apply for graduation with the BS and MS at the same time. Students will receive a BS degree and a MS degree on the same date, after requirements for both are completed. The student's advisor will ensure that appropriate forms are completed, and that students do not apply for BS degree graduation until both BS and MS requirements are finished. Upon the completion of BS degree requirements, students can elect to permanently leave the combined program at any time and earn only the BS degree. Once the BS is granted, students will have the same access requirements to regular graduate programs as any other student. However, the combined MS degree would not be available to those who elect to leave the combined program.

Admission into the combined program does not automatically qualify the students for admission into the MS degree program. To enroll in the MS degree program, the students must apply to the graduate school and meet all graduate admission requirements.

Common Prerequisites

CHM 1045 General Chemistry I
CHM 1045L General Chemistry Lab I
EIN 3235 Evaluation of Engineering Data
MAC 2311 Calculus I
MAC 2312 Calculus II
MAP 2302 Differential Equations
PHY 2048 Physics with Calculus I
PHY 2048L General Physics Lab I
PHY 2049 Physics with Calculus II
PHY 2049L General Physics Lab II

Lower Division Preparation

Students entering FIU with fewer than 36 transfer hours must satisfy all FIU Core Curriculum Requirements while students transferring to FIU with at least 36 hours must satisfy the General Education Requirements. To qualify for admission to the Industrial Engineering upper division program, students must have passed the CLAST and completed at least 60 semester hours of pre-engineering courses which include Calculus I & II, Differential Equations, Statistics, Chemistry I and Lab, Physics with Calculus I & II and Labs, 2 semesters of English and 2 other Gordon rule writing courses, and Engineering Graphics or CAD (unless previously taken in high school). A minimum grade of a “C” is required in all writing courses, all calculus courses, Differential Equations, both Physics classes and Chemistry. In addition, both transfer students and FIU Freshmen must take a combination of social sciences and humanities that fulfill the state general education requirements and whose topics also complement the goals and objectives of the College of Engineering (including economic, environmental, political, and/or social issues). See the following suggested list of courses in arts, historical foundations, critical inquiry, comparative cultures, and social science). Students who have not satisfactorily met the social science/humanities requirements may be required to take additional (advanced) humanities/social science course(s).

Arts (3) Choose 1 course:
ARH 2050 Art History I
ARH 2051 Art History II
THE 2000 Theatre Appreciation
CRW 2001 Creative Writing
MUH 1011 Music Appreciation

Historical Foundations (3)
WOH 2001 World Civilization

Critical Inquiry (3)
SSI 3240 World Prospects and Issues

Comparative Cultures (3) Choose 1 Course:
ANT 4273 Law & Culture
ECS 3003 Comparative Economic Systems
INR 4283 International Relations, Development, and the Third World

Social Science (3) Choose 1 Course:
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics
EVR 1017 Society and Global Environment

Foreign Language Requirement

Students must meet the University Foreign Language Requirement. Refer to the appropriate sections in the Catalog's General Information for Admissions and the Office of the Registrar.

Upper Division Program

The program includes 21 semester hours of General Engineering courses, 45 semester hours of required Industrial Engineering courses, and 12 hours of technical electives.
### General Engineering: (21)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EEL 3003</td>
<td>Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3123</td>
<td>Computer Assisted Drawing</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
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<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
<td>3</td>
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<tr>
<td>EGN 3365</td>
<td>Materials in Engineering</td>
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<tr>
<td>COP 3175</td>
<td>Visual BASIC</td>
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### Industrial Engineering Core Courses: (45)

<table>
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<tbody>
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<td>EIN 3554</td>
<td>Engineering Economy</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3565</td>
<td>Facilities Planning</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3590</td>
<td>Manufacturing Processes</td>
<td>2</td>
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<td>EIN 3590L</td>
<td>Manufacturing Processes Lab</td>
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<tr>
<td>EIN 3331</td>
<td>Quality Control</td>
<td>3</td>
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<tr>
<td>EIN 3600</td>
<td>Industrial Automation</td>
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<td>Industrial Automation Lab</td>
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<tr>
<td>EIN 4116</td>
<td>Industrial Information Systems</td>
<td>3</td>
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<tr>
<td>EIN 4243</td>
<td>Human Factors in Engineering</td>
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<td>Human Factors Lab</td>
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<tr>
<td>EIN 4314</td>
<td>Work Design</td>
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<td>EIN 4314L</td>
<td>Work Design Lab</td>
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<tr>
<td>EIN 4354</td>
<td>Production Planning &amp; Control</td>
<td>3</td>
</tr>
<tr>
<td>ESI 3161</td>
<td>Industrial Applications of Microprocessors</td>
<td>3</td>
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<tr>
<td>ESI 3314</td>
<td>Generic Models I</td>
<td>3</td>
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<tr>
<td>ESI 3315</td>
<td>Generic Models II</td>
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<td>ESI 3523</td>
<td>Simulation Models</td>
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<tr>
<td>ESI 4452</td>
<td>Project Management</td>
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<tr>
<td>ESI 4554</td>
<td>ISE Systems Design</td>
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### Industrial Engineering Electives (12)

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<tbody>
<tr>
<td>EIN 3102</td>
<td>Collective Bargaining</td>
<td>3</td>
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<tr>
<td>EIN 4214</td>
<td>Safety in Engineering</td>
<td>3</td>
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<tr>
<td>EIN 3949</td>
<td>Industrial Engineering Co-Op</td>
<td>1-3</td>
</tr>
<tr>
<td>EIN 4122</td>
<td>Industrial Marketing</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4126</td>
<td>Industrial Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4326</td>
<td>Industrial Research and Development</td>
<td>3</td>
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<tr>
<td>EIN 4333</td>
<td>Productivity Planning</td>
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<tr>
<td>EIN 4387</td>
<td>Technology Assessment</td>
<td>3</td>
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<td>EIN 4389</td>
<td>Technological Forecasting</td>
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<td>EIN 4391</td>
<td>Concurrent Engineering3</td>
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<tr>
<td>EIN 4395</td>
<td>Computer Integrated Manufacturing</td>
<td>3</td>
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<tr>
<td>EIN 4933</td>
<td>Special Topics</td>
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<tr>
<td>EIN 4949</td>
<td>Co-Op Work Experience</td>
<td>1-3</td>
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<tr>
<td>EIN 5106</td>
<td>Regulatory Aspects of Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EIN 5226</td>
<td>Total Quality Management for Engineers</td>
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### Industrial and Systems Engineering Program

#### First Semester: (15)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SLS 1501</td>
<td>Freshman Experience Seminar</td>
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<tr>
<td>ENC 1101</td>
<td>Freshman Composition</td>
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<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>CHM 1045</td>
<td>General Chemistry I</td>
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<tr>
<td>CHM 1045L</td>
<td>General Chemistry I Lab</td>
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<tr>
<td>EIN 3523</td>
<td>Evaluation of Engineering Data</td>
<td>3</td>
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<tr>
<td>COP 3175</td>
<td>Visual BASIC</td>
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<tr>
<td>EIN 4556</td>
<td>Industrial and Systems Engineering in the Office</td>
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#### Second Semester: (16)

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<tr>
<td>ENC 1102</td>
<td>Literary Analysis</td>
<td>3</td>
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<tr>
<td>MAC 2312</td>
<td>Calculus II</td>
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<tr>
<td>EIN 3335</td>
<td>Evaluation of Engineering Data</td>
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<tr>
<td>EIN 3452</td>
<td>Comparative Cultures</td>
<td>3</td>
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<tr>
<td>EIN 3453</td>
<td>(see suggested list under Lower Division Preparation)</td>
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#### Suggested Summer Term: (9)

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<td>EGN 3123</td>
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#### Third Semester: (14)

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<tr>
<td>PHY 2302</td>
<td>Differential Equations</td>
<td>3</td>
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<tr>
<td>PHY 2048</td>
<td>Physics with Calculus I</td>
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<tr>
<td>PHY 2048L</td>
<td>General Physics Lab I</td>
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<td>EIN 3354</td>
<td>Engineering Economy</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4116</td>
<td>Historical Foundations</td>
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#### Fourth Semester: (17)

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<tr>
<td>PHY 2029</td>
<td>Physics with Calculus II</td>
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<td>PHY 2049L</td>
<td>Physics with Calculus II Lab</td>
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<td>EGN 3311</td>
<td>Statics</td>
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<tr>
<td>EGN 3365</td>
<td>Materials in Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ESI 3161</td>
<td>Industrial Applications of Microprocessors</td>
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<tr>
<td>Tech Elective</td>
<td>Occupational Biomechanics</td>
<td>3</td>
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<td>Tech Elective</td>
<td>Engineering Management</td>
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<tr>
<td>Tech Elective</td>
<td>Quality Engineering</td>
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<tr>
<td>Tech Elective</td>
<td>Industrial Financial Decisions</td>
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<tr>
<td>Tech Elective</td>
<td>Design and Implementation of Discrete Manufacturing Systems</td>
<td>3</td>
</tr>
<tr>
<td>Tech Elective</td>
<td>Robotic Assembly Cells</td>
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<tr>
<td>Tech Elective</td>
<td>Industrial and Systems Engineering in the Office</td>
<td>3</td>
</tr>
</tbody>
</table>

### Course Descriptions

#### Definition of Prefix

- **EGN**: Engineering General
- **EIN**: Engineering: Industrial
- **ESI**: Engineering Systems Industrial

#### F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

- **EGN 3123 Computer Assisted Drawing and Design (3)**: Application of computer assisted design technology to product design, feasibility study and product development. (F,S,SS)

- **EGN 5435 Product Modeling (3)**: Lifecycle product data, geometry and form features, product information models and modeling techniques, product modeling systems, and product data standards. Prerequisites: EGN 3123 or equivalent.

- **EIN 1396C Basic Industrial Shop and Manufacturing Practices (3)**: Fundamentals of basic capabilities and requirements for a modern shop or industrial manufacturing facilities.
Rudiments of safety requirements, wood technology, metal technology and plastic technology. (S)

EIN 3102 Collective Bargaining in Industrial Systems (3). A comprehensive study of collective bargaining with emphasis upon the private sector. Included will be negotiations and scope of contracts, day-to-day contract administration, and major bargaining issues. (SS)

EIN 3235 Evaluation of Engineering Data (3). Analysis of industrial data and subsequent characterization of industrial processes. Prerequisite: MAC 2312. (F,S,SS)

EIN 3331 Quality Control (3). Modern concepts for managing the quality function of industry to maximize customer satisfaction at minimum quality cost. The economics of quality, process control, organization, quality improvement, and vendor quality. Prerequisite: EIN 3235. (F,S,SS)

EIN 3354 Engineering Economy (3). Basic methods of engineering economic analysis including equivalence, value measurement, interest relationships and decision support theory and techniques as applied to capital projects. (F,S,SS)

EIN 3365 Facilities Planning and Materials Handling (3). Application of methods and work measurement principles to the design of work stations. Integration of work stations with storage and material handling systems to optimize productivity. Prerequisite: EGN 3123 and ESI 3314. (F,S)

EIN 3390 Manufacturing Processes (2). Study of interrelationships among materials, design and processing and their impact on workplace design, productivity and process analysis. Prerequisites: EGN 3365. Corequisite: EIN 3390L. (F,S,SS)

EIN 3390L Manufacturing Processes Laboratory (1). Experiments are conducted using the machines, equipment and tools in the laboratory to provide students with hands-on experience on product design, process planning, fabrication and quality assurance. Corequisite: EIN 3390. (Lab fees assessed). (F,S,SS)

EIN 3600 Industrial Automation (2). Basic concepts of industrial automation and robotics. Performance character-

istics, criteria for use, planning, selection, and implementation of computer automated equipment. Open to non-majors. Prerequisite: ESI 3161. Corequisite: EIN 3600L. (F,S)

EIN 3600L Industrial Automation Lab (1). Experiments in the use of CNC machines and robots demonstrating performance characteristics of CNC equipment and robotic arms. Corequisite: EIN 3600. (Lab fees assessed). (F,S)

EIN 3949 Industrial Engineering Co-Op (1-3). Entry level work experience as an Industrial Engineering intern. Jointly supervised by IE and Industry personnel. Written report required. Student must obtain approval from IE faculty and sign up for course before starting work. Prerequisite: Approval of advisor. (F,S,SS)

EIN 4116 Industrial Information Systems (3). The integration of information flows and data bases with the production planning and control systems into productive and manage-able systems. Prerequisite: Programming language. (F,S)

EIN 4122 Industrial Marketing (3). The performance of business activity that directs the flow of goods and services from producer to industrial user. Covers new product development, marketing research, sales engineering, pricing, distribution, and promotion. (F)

EIN 4214 Safety in Engineering (3). Introduces occupational safety and health hazards associated with mechanical systems, materials handling, electrical systems, and chemical processes. Illustrates controls through engineering revision, safeguarding, and personal protective equipment. Emphasis placed on recognition, evaluation and control of occupational safety and health hazards. Prerequisites: EIN 4314 or permission of the instructor. (F)

EIN 4243 Human Factors Engineering (2). Examination of the ways to fit jobs and objects better to the nature and capacity of the human being. Lectures will review man's performance capability, singly and in groups, in interacting with his work environment. Stresses the practical application of human factors principles. Prerequisite: EIN 4314. Corequisite: EIN 4243L. (F,S)

EIN 4243L Human Factors in Engineering and Design Laboratory (1). Experiments are conducted which measure human factors indicators and differences by age, sex, and race, as well as physiological and anatomical differences. Corequisite: EIN 4243. (Lab fees assessed). (F,S)

EIN 4261 Industrial Hygiene (3). A continuation of Safety in Industry. An introduction to OSHA regulations on health hazards. Noise, radiation, and dust problems in industry. Special hazards with solvents, asbestos, lead, silica, and other chemicals. OSHA compliance procedures. Prerequisite: Junior standing. (S)

EIN 4314 Work Design and Industrial Ergonomics (2). The analysis, design, and maintenance of work methods. Study of time standards, including pre-determined time stand-ards and statistical work sampling. Prerequisite: EGN 3123, EIN 325 or equivalent. Corequisite: EIN 4314L. (F,S)

EIN 4314L Work Design and Industrial Ergonomics Laboratory (1). Experiments in the different Work Design techniques including Performance Sampling, Time Studies, Pre-Determined Time Systems and Workplace Design. Corequisite: EIN 4314. (Lab fees assessed). (F,S)

EIN 4326 Industrial Research and Development (3). Research and development for new product strategies, technological assessment, patent and product liability, and sales engineering. An independent study product will be required by each student. Prerequisite: Senior status. (S)

EIN 4333 Productivity Planning (3). The improvement of productivity as a functional activity of the enterprise. Productivity definitions, measurement, methodologies, and reporting systems. Prerequisites: EIN 4314, ESI 3161, and statistics. (F)

EIN 4334 Production Planning and Control (3). Production systems, demand forecasting, capacity planning, master production planning, material requirements planning, shop floor control, and assembly line balancing. Prerequisites: EIN 3354 and ESI 3314. (F,S)

EIN 4387 Technology Assessment (3). Development of systematic efforts to anticipate impacts on society that may occur when a technology is introduced,
EIN 4389 Technological Forecasting (3). Emphasis on forecasting future trends and specific developments in the area of capabilities and needs. Prerequisites: Senior standing in Engineering, EIN 3161 and Statistics. (S)


EIN 4933 Special Topics in Industrial Engineering (2-3). Permits in-depth study in areas relating to specific student interests, recent advances, and problems in industrial technology or systems. Prerequisite: Senior standing, consent of faculty advisor and approval of department chairman. (F,S,SS)

EIN 4949 Co-Op Work Experience (1-3). Practical co-op work experience under approved industrial supervision. Written report required at the conclusion of the work assignment. Prerequisite: Permission of department chairperson. (F,S,SS)

EIN 5106 Regulatory Aspects of Engineering (3). A survey of the legal and regulatory requirements encountered by engineers. Included OSHA Act, NIOSH, ADA, EEOC, Worker's Compensation and Product Liability. Prerequisite: Senior standing. (SS)

EIN 5226 Total Quality Management for Engineers (3). Fundamentals of TQM and its historical development. Integration of QC and management tools, QFD, benchmarking, experimental design for scientific management. (F,S)

EIN 5249 Occupational Biomechanics (3). Study of the theoretical fundamentals for the mechanics of the body. The link system of the body and kinematic aspects of body movement including applications of biomechanics to work systems. (S)

EIN 5256 Usability Engineering (3). The usability aspects of software systems design and testing. The theory of interface design for usability and the methods and techniques for designing and testing technology interfaces. Prerequisites: Permission of Instructor.

EIN 5322 Engineering Management (3). Organization of engineering systems including production and service organizations. Inputs of human skills, capital, technology, and managerial activities to produce useful products and services. (F,S)

EIN 5332 Quality Engineering (3). This course examines quality control from an engineering standpoint. It covers ways to meet the challenge of designing high-quality products and processes at low cost. Prerequisite: EIN 3331 or equivalent. (S)

EIN 5346 Logistics Engineering (3). Concepts and tools for effective design and management of supply chain systems. Includes logistics strategies, inventory management, customer service, supply chain integration and logistics network design. Prerequisite: Consent of Instructor.

EIN 5359 Industrial Financial Decisions (3). The use of financial techniques and data in planning, controlling and coordinating industrial activities. This course will familiarize the student with accounting concepts and analytical methods. Prerequisite: EIN 3354. (SS)

EIN 5367 Design of Production Systems (3). The design of an industrial enterprise including feasibility, plant layout, equipment specifications, auxiliary services, economics and scheduling. Prerequisite: EIN 3365. (SS)

EIN 5392 Design and Implementation of Discrete Manufacturing Systems (3). Methodology and techniques for design, planning and implementation of discrete production systems including process/machine selections, material handling and inspection technologies, cell control, etc. Prerequisites: Graduate or seniors with EIN 3365, EIN 3390, and ESI 3523 or equivalent.

EIN 5605 Robotic Assembly Cell (3). Concepts of robot manipulation and sensing, part design for robotic assembly, planning manipulator trajectories, machine vision, robot programming language, cell control, and material transfer. Prerequisite: EIN 3600. (S)

ESI 3161 Industrial Applications of Microprocessors (3). Basic concepts of microprocessors; an overview of computer architecture, local area networks, micro-mainframe linking, and operating systems as they apply to industrial systems. (F,S,SS)

ESI 3314 Generic Models of Industrial Systems I (3). Modeling principles with emphasis on linear programming and extensions. The simplex procedure and its application through computer software packages. The analysis and interpretation of results in decision making. Prerequisite: MAC 2312, permission of the instructor. (F,S)

ESI 3523 Simulation Models of Industrial Systems (2). Simulation methodology, design of simulation experiments, implementation of simulation effort through computer software. Application to the solution of industrial and service system problems. Prerequisites: CGS 2423 or equivalent, ESI 3161, ESI 3314 and EIN 3235 or equivalent. Corequisite: ESI 3523L. (F,S)

ESI 3523L Simulation Models of Industrial System Laboratory (1). Simulation Modeling on a microcomputer. Analyze and validate design models using both a general purpose programming language and a special-purpose simulation language. Corequisite: ESI 3523. (F,S)

ESI 4315 Generic Models of Industrial Systems II (3). Modeling principles with emphasis on applications of Markov Chains, queuing models, systems reliability, Bayesian decision analysis. Prerequisites: ESI 3314, EIN 3235 or equivalent. (F,S)

ESI 4317 Computer Algorithms for Operations Research (3). Discussion and implementation of a collection of computer algorithms essential for the O.R. researcher and consultant. This collection of algorithms includes both deterministic and stochastic models. Computer exercises. Prerequisite: ESI 3314 or equivalent.

ESI 4452 Project Management Systems Design (3). Project planning, scheduling and control using activity network logic. System development
techniques and strategies. Prerequisite: Permission of the instructor. (F,S)

ESI 4554 ISE Systems Design (3). To integrate all prior ISE required courses into a cohesive and consistent professional philosophy. Prerequisite: Permission of the instructor. (F,S)

ESI 4556 Industrial and Systems Engineering in the Office (3). Paperwork reduction, overhead and expense cost containment, and white collar productivity through office automation and systems analysis.

ESI 5602 Engineering Data Representation and Modeling (3). The course will cover the life cycle of designing, developing, and implementing engineering database systems by applying the IDEFLx methodology. Prerequisites: Permission of Instructor.

Mechanical Engineering

Vish Prasad, Dean
Norman Munroe, Associate Professor, and Chairperson
Yiding Cao, Associate Professor
Claudius Carnegie, Adjunct Professor
Eric Crumpler, Assistant Professor
M. Ali Ebadian, Professor, Director HECT

Esam Hamad, Associate Professor
Gordon Hopkins, Professor
W. Kinzy Jones, Professor
Cesar Levy, Professor
Jose Marina, Adjunct Professor
Anthony McGoron, Assistant Professor
James E. Moore, Jr., Associate Professor
Luis Pujol, Instrucctor
Ian Radin, Adjunct Professor
Diana Rincon, Assistant Professor
Carmen Schenck, Advisor/Instructor
Richard Schoephoerster, Associate Professor, Director Biomedical Engineering Institute
Ibrahim Tansel, Associate Professor
Yong Xin Tao, Associate Professor
Sabri Tosunoglu, Associate Professor
Kuang Hsi Wu, Professor
Marc Zampino, Lab Manager

The Department of Mechanical Engineering at Florida International University (FIU) offers a curriculum which is designed to give the student a thorough understanding of the basic laws of science and to simultaneously stimulate and develop creative thinking, a professional attitude, economic judgement and environmental consciousness. The aim is to develop the student's potential to the fullest, to prepare the student for superior performance as a mechanical engineer, foster lifelong learning and to provide the student with the fundamental principles necessary for pursuing advanced study in the diverse fields of engineering, science and business.

A graduate of the Mechanical Engineering program should possess:
1. Broad and in-depth knowledge of engineering science and principles in the following five major branches of Mechanical Engineering: (1) Fluids/Thermal Sciences and Energy Systems, (2) Mechanics and Materials, (3) Design and Manufacturing, and (4) Biomechanics and Biomedical Engineering for effective engineering practice, professional growth and as a base for lifelong learning.
2. Hands-on experience with state-of-the-art instruments and laboratory techniques to bridge classroom learning with practical "real-life" problems.
3. The ability to utilize analytical and experimental methods and modern computer technology for decision making, engineering design, and to solve realistic engineering problems.
4. The ability to work effectively with others in a team while simultaneously maintaining independent and creative thought.
5. The ability to articulate technical matters using verbal, written and graphic techniques.
6. An adequate background to pursue graduate studies in engineering and other fields.
7. A sense of professional and social responsibility, including a commitment to protect both occupational and public health and safety, developed through consideration of moral, social, and ethical paradigms related to the engineering profession and practice.

The academic program provides a well-balanced curriculum in the following three major areas of Mechanical Engineering:
Fluid/Thermal Science
Mechanics and Materials
Design and Manufacturing

Further specializations in any of the following areas may be obtained by the proper choice of electives:
Environmental and Waste Management
Energy Systems
Heating, Ventilation, and Air Conditioning
Mechanics and Material Sciences
Biomechanics and Bioengineering
Manufacturing
Robotics
Design
Computer-Aided Engineering

The courses in the Manufacturing Methods area and Robotics are offered by both the Mechanical and the Industrial Engineering Departments. Biomechanics and Biomedical Engineering are interdisciplinary studies with courses offered by both the Mechanical and Electrical and Computer Engineering Departments. The courses in the Environmental and Waste Management area are offered by the Mechanical and Civil Engineering Departments.

A Bachelor's degree in Mechanical Engineering provides students with the background suitable for immediate employment in engineering industries, as well as excellent preparation for graduate studies in Engineering, Biomedical Engineering, and other fields.

Bachelor of Science in Mechanical Engineering

Common Prerequisites

CHM 1045 General Chemistry I
CHM 1045L General Chemistry Lab I
MAC 2311 Calculus I
MAC 2312 Calculus II
MAC 2313 Multivariable Calculus
MAP 2302 Differential Equations
EGM 3311 Analysis of Engineering Systems

PHY 2048 Physics with Calculus I
PHY 2048L General Physics Lab I
PHY 2049 Physics with Calculus II
PHY 2049L General Physics Lab II

Degree Program Hours: 128

The qualifications for admissions to the Department of Mechanical Engineering are the same as for admission to the School of Engineering.

The academic program is designed to satisfy the criteria outlined by the Accreditation Board for Engineering and Technology (ABET), as well as to meet the State of Florida's articulation policy. Entering freshmen at FIU should seek advisement from the Undergraduate Studies Office as well as from the Mechanical Engineering Department's office of advisement.

Lower Division Preparation

Lower division requirements include at least 60 hours of pre-engineering credits (see the Undergraduate Studies portion of this catalog for specific requirements). These courses include Software for Mechanical Design, Calculus I, II, III, Differential Equations, of Chemistry I and Lab, Calculus based Physics I & II and Labs, 2 semesters of English and 2 other Gordon rules writing courses. (Engineering Graphics is a required prerequisite unless previously taken in high school). A minimum grade of a "C" is required in all writing courses, all calculus courses, Differential Equations, both Physics classes and Chemistry. In addition, both transfer students and FIU Freshman must take a combination of social sciences and
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EML 3262</td>
<td>Kinematics &amp; Mechanism Design</td>
<td>3</td>
</tr>
<tr>
<td>EML 4220</td>
<td>Mechanical Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3354</td>
<td>Engineering Economy</td>
<td>3</td>
</tr>
<tr>
<td>EML 4312</td>
<td>Automatic Control Theory</td>
<td>3</td>
</tr>
<tr>
<td>EML 4140</td>
<td>Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3390</td>
<td>Manufacturing Processes</td>
<td>2</td>
</tr>
<tr>
<td>EIN 3390L</td>
<td>Manufacturing Processes Lab</td>
<td>1</td>
</tr>
<tr>
<td>EEL 3003</td>
<td>Electrical Engineering I</td>
<td>1.5</td>
</tr>
<tr>
<td>EEL 3111L</td>
<td>Circuit Lab</td>
<td>1</td>
</tr>
<tr>
<td>EML 3301L</td>
<td>Instrumentation &amp; Measurement Lab</td>
<td>1</td>
</tr>
<tr>
<td>EML 4906L</td>
<td>Mechanical Lab I</td>
<td>1.5</td>
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<tr>
<td>EML 3500</td>
<td>Mechanical Design I</td>
<td>3</td>
</tr>
<tr>
<td>EML 4501</td>
<td>Mechanical Design II</td>
<td>3</td>
</tr>
<tr>
<td>EML 4706</td>
<td>Design of Thermal and Fluid Systems</td>
<td>3</td>
</tr>
<tr>
<td>EML 4551</td>
<td>Design Project Organization</td>
<td>1</td>
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<tr>
<td>EML 4905</td>
<td>Senior Design Project</td>
<td>3</td>
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<td>Design Elective</td>
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<tr>
<td>EEL 4140</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Math/Statistics Elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

1. These courses are four contact hours to include a one-hour non-credit tutorial.
2. The Senior Design Project is taken in two consecutive semesters during the senior year. During the first semester of his/her senior year, the student must register for EML 4551 Design Project Organization. The senior project begins during this course. The next semester the student must register for EML 4905 to complete the project.
3. Approved Design electives:
   - EGM 4350 Finite Element Analysis in Mechanical Design
   - EML 4503 Production Machine Modeling and Design
   - EML 4525 Mechanical Design Synthesis and Analysis
   - EML 4535 Mechanical Computer Aided Design
   - EML 4561 Introduction to Electronic Packaging
   - EML 4585 Design of Biomedical Systems and Devices
   - EML 4603 Air Conditioning Design
   - EML 5509 Mechanical Design Optimization
   - EML 5519 Fault-Tolerant System Design
   - EIN 4395 Computer Integrated Manufacturing

4. Approved Math/Statistics Electives:
   - EIN 3255 Evaluation of Engineering Data
   - STA 3033 Introduction to Probability and Statistics for CS

5. Students must maintain and achieve a grade point average of 2.0 or better in those engineering courses to be used to satisfy BSME degree requirements. This "major GPA" is computed in the manner of the overall GPA. Courses that are excluded from the calculation of the overall GPA will also be excluded from the calculation of the major GPA. Students failing to maintain a major GPA of 2.0 will be placed on major GPA probation, suspension, or dismissed from the program according to the same criteria that are utilized with the overall GPA.

The elective areas offer the following additional laboratories: Air Conditioning and Refrigeration, Biomedical Engineering, Material Sciences, Computer/Aided Design, and Computer/Integrated Manufacturing.

**Fluids/Thermal Sciences and Energy Systems**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EGM 4350</td>
<td>Finite Element Analysis in Mechanical Design</td>
<td>3</td>
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<tr>
<td>EML 3450</td>
<td>Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>EML 4419</td>
<td>Propulsion Systems</td>
<td>3</td>
</tr>
<tr>
<td>EML 4421</td>
<td>Internal Combustion Engines</td>
<td>3</td>
</tr>
<tr>
<td>EML 4525</td>
<td>Mechanical Design</td>
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<tr>
<td>EML 4532</td>
<td>Synthesis and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EML 4601</td>
<td>Refrigeration and Air Conditioning</td>
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</tr>
<tr>
<td>EML 4601L</td>
<td>Refrigeration and A/C Lab</td>
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<tr>
<td>EML 4603</td>
<td>Air Conditioning Design</td>
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<tr>
<td>EML 4606C</td>
<td>Mechanical Systems in Environmental Control</td>
<td>3</td>
</tr>
<tr>
<td>EML 4702</td>
<td>Fluid Dynamics</td>
<td>3</td>
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<tr>
<td>EML 4711</td>
<td>Gas Dynamics</td>
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<tr>
<td>EML 5103</td>
<td>Intermediate Thermodynamics</td>
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<tr>
<td>EML 5104</td>
<td>Classical Thermodynamics</td>
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<tr>
<td>EML 5152</td>
<td>Intermediate Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EML 5606C</td>
<td>Advanced Refrigeration and A/C Systems</td>
<td>3</td>
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<tr>
<td>EML 5615C</td>
<td>CAD in Air Conditioning</td>
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<tr>
<td>EML 5708</td>
<td>Advanced Design of Mechanical Systems</td>
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<tr>
<td>EML 5709</td>
<td>Intermediate Fluid Mechanics</td>
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**Mechanics, Materials and Design**

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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EGM 3311</td>
<td>Analysis of Mechanical Systems</td>
<td>3</td>
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<tr>
<td>EGM 4610</td>
<td>Introduction to Continuum Mechanics</td>
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<tr>
<td>EGM 4530</td>
<td>Finite Element Analysis</td>
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<tr>
<td>EGM 5315</td>
<td>Intermediate Analysis of Mechanical Systems</td>
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<tr>
<td>EGM 5615</td>
<td>Synthesis of Engineering Mechanics</td>
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<tr>
<td>EGN 5367</td>
<td>Industrial Materials and Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>EMA 3066</td>
<td>Polymer Science and Engineering</td>
<td>3</td>
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<tr>
<td>EMA 4121</td>
<td>Physical Metallurgy</td>
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<tr>
<td>EMA 4121L</td>
<td>Materials Laboratory</td>
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<tr>
<td>EMA 4223</td>
<td>Mechanical Metallurgy</td>
<td>3</td>
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<tr>
<td>EMA 5295</td>
<td>Principles of Composite Materials</td>
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<tr>
<td>EMA 5507C</td>
<td>Analytical Techniques of Material Sciences</td>
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<td>EMA 5935</td>
<td>Advanced Topics in Materials Engineering</td>
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<tr>
<td>EML 3222</td>
<td>System Dynamics</td>
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<td>EML 3301C</td>
<td>Instrumentation</td>
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<tr>
<td>EML 4260</td>
<td>Dynamics of Machinery</td>
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<tr>
<td>EML 4525</td>
<td>Mechanical Design Synthesis and Analysis</td>
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<tr>
<td>EML 4535</td>
<td>Mechanical Computer-Aided Design</td>
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<tr>
<td>EML 4561</td>
<td>Introduction to Electronic Packaging</td>
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<tr>
<td>EML 5125</td>
<td>Classical Dynamics</td>
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**Biomechanics and Biomedical Engineering**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EML 5385</td>
<td>Identification Techniques of Mechanical Systems</td>
<td>3</td>
</tr>
<tr>
<td>EML 5530</td>
<td>Intermediate CAD/CAE</td>
<td>3</td>
</tr>
<tr>
<td>EML 5562</td>
<td>Advanced Electronic Packaging</td>
<td>3</td>
</tr>
<tr>
<td>EML 5581</td>
<td>Biomechanics of Cardiovascular Systems</td>
<td>3</td>
</tr>
<tr>
<td>EML 5582</td>
<td>Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EML 5583</td>
<td>Orthopaedic Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>EML 4601L</td>
<td>Biomedical Engineering Lab</td>
<td>1</td>
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<tr>
<td>EML 4603</td>
<td>Air Conditioning Design</td>
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<tr>
<td>EML 4608</td>
<td>Mechanical Systems in Environmental Control</td>
<td>3</td>
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<tr>
<td>EIN 3235</td>
<td>Evaluation of Engineering Data</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3390L</td>
<td>Mechanical Computer-Aided Design</td>
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**Manufacturing and Robotics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EIN 3600</td>
<td>Introduction to Robotics</td>
<td>2</td>
</tr>
<tr>
<td>EIN 4391</td>
<td>Product Design for Manufacturing and Automation</td>
<td>3</td>
</tr>
<tr>
<td>EIN 4395</td>
<td>Computer-Integrated Manufacturing</td>
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<tr>
<td>EML 4535</td>
<td>Mechanical Computer-Aided Design</td>
<td>3</td>
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<tr>
<td>EML 4561</td>
<td>Introduction to Electronic Packaging</td>
<td>3</td>
</tr>
<tr>
<td>EML 4806</td>
<td>Modeling and Control of Robots</td>
<td>3</td>
</tr>
<tr>
<td>EML 5562</td>
<td>Advanced Electronic Packaging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Areas of Specialization**

- Air Conditioning and Refrigeration
- Applied Mechanics
- Bioengineering/Biomechanics
- Computer-Aided Engineering
- Computer-Integrated Manufacturing and Design
- Energy Systems
- Environmental and Waste Management
- Finite Element Analysis
- Fluid Mechanics
- Heat Transfer
- Material Sciences
- Robotics
- Thermal Science

*In order to specialize in manufacturing, students need to collaborate with the faculty of the Industrial Engineering Department.*

**Options in Mechanical Engineering**

The following options are available:

- **Heating, Ventilation and Air Conditioning Design Option**
  - EML 4601 Refrigeration and Air Conditioning 3
  - EML 4601L Refrigeration and Air Conditioning Lab 1
  - EML 4603 Air Conditioning Design 3
  - EML 4608 Mechanical Systems in Environmental Control 3
  - EIN 3235 Evaluation of Engineering Data 3
  - STA 3033 Probability and Statistics for Computer Science 3
  - EML 4535 Mechanical Computer-Aided Design 3
  - EIN 3390L Manufacturing Lab 1

- **Biomechanical/Biochemical Option**
  - EIN 3235 Evaluation of Engineering Data 3
  - STA 3033 Probability and Statistics for Computer Science 3
  - EML 4585 Design of Biomedical Systems and Devices 3
  - EGM 4581 Biomechanics of Cardiovascular Systems 3
  - EGM 4582 Engineering Hemodynamics 3

**Mechanical Engineering Program Requirements—Freshman to Senior**

**First Semester:** (17)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MAC 2311</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>CHM 1045</td>
<td>General Chemistry I</td>
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<td>CHM 1045L</td>
<td>General Chemistry I Lab</td>
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<tr>
<td>ENC 1101</td>
<td>Freshman Composition I</td>
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<tr>
<td>ARH 2050</td>
<td>Art History I</td>
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<tr>
<td>ARH 2051</td>
<td>Art History II</td>
<td>3</td>
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<tr>
<td>THE 2000</td>
<td>Theatre Appreciation I</td>
<td>3</td>
</tr>
<tr>
<td>CRW 2001</td>
<td>Creative Writing I</td>
<td>3</td>
</tr>
<tr>
<td>MUH 1011</td>
<td>Music Appreciation I</td>
<td>3</td>
</tr>
</tbody>
</table>

- **Second Semester:** (17)

- **Third Semester:** (18)

- **Fourth Semester:** (18)

- **Final Two Semesters:** (20)

- **Elective Courses:** (11)

- **Total Credits:** 121
**Second Semester: (17)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
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<tr>
<td>MAC 2312</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2048</td>
<td>Physics I with Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>General Physics I Lab</td>
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</tr>
<tr>
<td>ENC 1102</td>
<td>Literary Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EGN 3365</td>
<td>Materials in Eng</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
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<tr>
<td>ECO 2023</td>
<td>Principles of Microeconomics</td>
<td>3</td>
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<td>or</td>
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<tr>
<td>EVR 1017</td>
<td>Society and Global Environment</td>
<td>3</td>
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</table>

**Third Semester: (17)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MAC 2313</td>
<td>Multivariable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2049</td>
<td>Physics with Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2049L</td>
<td>General Physics II Lab</td>
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</tr>
<tr>
<td>EGN 3311</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3390</td>
<td>Manufacturing Processes</td>
<td>2</td>
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<tr>
<td>EIN 3390L</td>
<td>Manufacturing Processes Lab</td>
<td>1</td>
</tr>
<tr>
<td>EML 2030</td>
<td>Software for Mechanical Design</td>
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**Fourth Semester: (17)**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3</td>
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<tr>
<td>EGN 3321</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3003</td>
<td>Electrical Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3111L</td>
<td>Circuits Lab</td>
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<tr>
<td>EGN 3343</td>
<td>Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>EMA 3702</td>
<td>Mechanics and Materials Science</td>
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<tr>
<td>EMA 3702L</td>
<td>Mechanics and Materials Science Lab</td>
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**Fifth Semester: (14)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EIN 3354</td>
<td>Engineering Economy</td>
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</tr>
<tr>
<td>EML 3101</td>
<td>Thermodynamics II</td>
<td>3</td>
</tr>
<tr>
<td>EML 3126</td>
<td>Transport Phenomena</td>
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</tr>
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<td>EML 3126L</td>
<td>Transport Phenomena Lab</td>
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<tr>
<td>EML 3262</td>
<td>Kinematics and Mechanisms Design</td>
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</tr>
<tr>
<td>EML 3301L</td>
<td>Instrumentation and Measurement Lab</td>
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**Sixth Semester: (15)**

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<tr>
<th>Course Code</th>
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<tr>
<td>EML 4220</td>
<td>Mechanical Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>EML 4140</td>
<td>Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>EML 3500</td>
<td>Mechanical Design I</td>
<td>3</td>
</tr>
<tr>
<td>Math/Statistics Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ANT 4273</td>
<td>Law &amp; Culture (SS)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
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<tr>
<td>ECS 3003</td>
<td>Comparative Economic Systems</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
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<tr>
<td>HUM 4191</td>
<td>Cultural Heritage &amp;</td>
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**Combined BSME/MSME Program**

Students who have completed at least 90 credit hours toward their BS degree and have earned at least a 3.25 GPA may apply to the department to enroll in the combined BSME/MSME program. Acceptance to the program requires the approval of the undergraduate advisor and two ME faculty members.

The BS/MS (3 + 2) Program has been designed to be a continuous program. Students in 3 + 2 programs will apply for graduation with the BS and MS at the same time. Students will receive a BS degree and a MS degree on the same date, after requirements for both are completed. The student’s advisor will ensure that appropriate forms are completed, and that students do not apply for MS degree graduation until both BS and MS requirements are finished. Upon completion of BS degree requirements, students can elect to permanently leave the combined program at any time and earn only the BS degree. Once the BS is granted, students will have the same access requirements to regular graduate programs as any other student. However, the combined MS degree would not be available to those who elect to leave the combined program.

**Degree Program Hours: 128**

The Chemical Engineering curriculum is designed to prepare graduates to apply the principles of chemical engineering to the design and operation of chemical process systems. Proper selection of electives allows a graduate to develop background in physiology as preparation for a career in biochemical engineering.

**Lower Division Preparation**

It is required that FIU undergraduates complete the common prerequisite courses listed above with a 2.5 GPA. In addition, FIU undergraduates must meet all lower division requirements to include: CLAST, two Gordon Rule courses, two English composition courses, 16 hours of humanities/social science. Progress toward the baccalaureate degree is facilitated by the completion of the General Chemistry sequence (second course with laboratory) as well as the two course sequence in Organic Chemistry with laboratories.
Foreign Language Requirement
Students must meet the University foreign language requirement. Refer to the Catalog's section on General Information for Admissions and the Office of the Registrar.

Upper Division Program
The upper division program includes continuation of the science component of the program with two course sequences in Physical Chemistry (with laboratories) with the option of substituting an elective course in the biological science for the second course in the Physical Chemistry sequence. The remaining 38 credits of required courses include a senior design project and an additional 11 credits of technical elective. The latter permits students to develop their programs in areas of specific interest.

Students must maintain and achieve a grade point average of 2.0 or better in those engineering courses to be used to satisfy BSChE degree requirements. This "major GPA" is computed in the manner of the overall GPA. Courses that are excluded from the calculation of the overall GPA will also be excluded from the calculation of the major GPA. Students failing to maintain a major GPA of 2.0 will be placed on major GPA probation, suspension, or dismissed from the program according to the same criteria that are utilized with the overall GPA.

Students who are dismissed for the first time from the University due to low grades may appeal to the Dean for reinstatement. A second dismissal results in no possibility of reinstatement.

Chemical Engineering Program Requirements
First Semester: (17)
- MAC 2311: Calculus I 4
- CHM 1045: General Chemistry I 3
- CHM 1045L: General Chemistry I Lab 1
- ENC 1101: Freshman Composition 3
- ARH 2050: Art History I 3
- ARH 2051: Art History II 3
- THE 2000: Theatre Appreciation 3
- CRW 2001: Creative Writing 3
- MUH 1011: Music Appreciation 3
- EGN 1100: Introduction to Engineering 2
- EGN 1110C: Engineering Drawing 0

Second Semester: (17)
- MAC 2312: Calculus II 4
- CHM 1046: General Chemistry II 3
- CHM 1046L: General Chemistry II Lab 1
- CGS 2423: C Programming for Engineers 3
- ENC 1102: Literacy Analysis 3
- ECO 2013: Principles of Macroeconomics 3
- ECO 2023: Principles of Microeconomics 3
- EVR 1017: Society and Global Environment 3

Third Semester: (16)
- MAC 2313: Multivariable Calculus 4
- PHY 2048: Physics with Calculus I 4
- PHY 2048L: Physics with Calculus I Lab 1
- CHM 2210: Organic Chemistry I 4
- CHM 2210L: Organic Chemistry I Lab 1
- ANT 4273: Law & Culture (3SS) 3
- ECS 3003: Comparative Economic Systems (3SS) 3
- HUM 4191: Cultural Heritage & Cultural Change 3
- INR 4283: International Relations, Development, and the Third World (3SS) 3

Fourth Semester: (15)
- MAP 2302: Differential Equations 3
- PHY 2049: Physics with Calculus II 4
- PHY 2049L: Physics with Calculus II Lab 1
- CHM 2211: Organic Chemistry II 4
- CHM 2211L: Organic Chemistry Lab II 1
- EML 3343: Thermodynamics 3

Fifth Semester: (16)
- CHM 3410: Physical Chemistry I 4
- CHM 3410L: Physical Chemistry I Lab 1
- ECH 3123: Thermo II for Chem Engineers 3
- ELM 3126: Transport Phenomena 3
- EML 3126L: Transport Phenomena Lab 1
- EEL 3003: Electrical Engineering 3
- EEL 3111L: Circuits Lab 1

Sixth Semester: (16 or 14)
- CHM 3411: Physical Chemistry II 4
- CHM 3411L: Physical Chemistry Lab II 2
- BCH 1010: General Biology 3
- BCH 1010L: General Biology Lab I 1

Seventh Semester: (15 or 17)
- ECH 4641: Design Project II 3
- Technical Elective 3 or 5

Eighth Semester: (16)
- EML 4xxxL: Chemical Engineering Lab II 2
- ECH 4645: Design Project II 3
- SSI 3240: World Prospect and Issues 3
- WOH 2001: World Civilization 3

For students entering the university with at least 36 semester hours, refer to the "General Education Requirements" section and select courses that satisfy the Writing Requirement and the Humanities and Social Science requirements.

These are four contact hours courses that include a one-hour non-credit tutorial.

The Design Project is taken in two consecutive semesters during the senior year. The project is initiated during Design Project I and is completed during the Design Project II.

(Note no admits at this time)

Course Descriptions

Definition of Prefixes
ECH – Chemical Engineering
EGM - Engineering Mechanics;
EGN - Engineering; General;
EMA - Engineering; Materials;
EML - Engineering; Mechanical

EAS 4105 Introduction to Flight Mechanics (3). An introductory level course on the fundamentals of aerospace engineering with emphasis on aerodynamics and airplane performance. Prerequisite: EML 3126.

ECH 3123 Chemical Engineering Thermodynamics II (3). Properties of single component systems using corre-
ECH 4645 Design Project II (3).
Continuation of design project from
Senior Design I. Final design report
and presentation. Prototype construct-
ion, performance evaluation, demon-
stration and presentation. Prerequisite:
ECH 4643.

ECH 4706 Engineering Application
of Electrochemistry (3). The
application of the electrochemical
engineering principles to the analysis
of industrial processes. Emphasis
is placed on electrolysis in aqueous
solutions and in fused salts;
electrodeposition, electrowinning,
and refining; electrochemical
power systems. Prerequisite: ECH 3704.

ECH 4826 Corrosion Control (3).
Various forms of corrosion, including
pitting, stress, crevice, galvanic
and microbial induced corrosion,
are presented. The problems of
material selection, failure analyses
and corrosion control are discussed.
Prerequisites: EGN 3365 and CHM 3411

EGM 3311 Analysis of Engineering
Systems (3). Analysis of engineering
problems, from modeling principles
to their solution via linear and
nonlinear differential equations.
Lumped parameter analysis and
numerical methods available for
solutions. Prerequisites:
EGN 3321 and MAC 2313.

EGM 3503 Applied Mechanics (3).
Statics and dynamics of solids and
fluids. Science of engineering
materials. Open to non-mechanical
engineering students only. Prerequisite:
Permission of the instructor.

EGM 4350 Finite Element Analysis
in Mechanical Engineering (3). Finite
Element Analysis is developed as a
means to determine stress and
deformation levels as well as
temperature and heat flux levels in
solids. Application by means of
commercial software. Prerequisites:
CGS 2420 or CGS 2423,
EML 4140 and EMA 3702.

EGM 4580 Principles of Bioengineer-
ing (3). Medical instrumentation and
design, regulations for medical devices,
application of computers in medicine,
biomaterials, biocommunications,
artificial implants; clinical engineering.
Prerequisite: Permission of the instructor.

EGM 4580L Biomedical Engineering
Lab (1). Introduction to the principles
of biological signal measurements,
biological data acquisition and image
processing. Prerequisite: Permission of
the instructor.

EGM 4581 Biomechanics of Cardio-
vascular Systems (3). Functional
cardiovascular physiology and anatomy;
analysis and computation of
cardiovascular flow; constitutive
properties of tissue; coronary and
systemic circulation; flow and stress
considerations in cardiovascular assist
devices. Prerequisites: EMA 3702 and EML
3126.

EGM 4582 Engineering Hemody-
namics (3). Fluid Mechanics of the
circulatory system, rheology of blood,
lubrication mechanics. Prerequisites:
EML 3126 and EML 3126L.

EGM 4583 Orthopaedic Biomechani-
ces (3). Introduction to the funda-
mentals of human musculo-skeletal
physiology and anatomy and computa-
tion of mechanical forces as it applies
to orthopaedic biomechanics. Prereq-
sities: EGN 3321 and EMA 3702.

EGM 4610 Introduction to Continu-
uum Mechanics (3). Introduction to
modern continuum mechanics, math-
ematical preliminaries, stress and equili-
brium, deformations and compatibility,
constitutive equations, balance laws,
problem solution strategies. Prereq-
sities: EMA 3702.

EGM 5315 Intermediate Analysis of
Mechanical Systems (3). First course
at the graduate level in the analysis of
mechanical systems. Modeling of the
system and analytical and numerical
methods of solution of the governing
equations will be studied. Fluid and
thermodynamic systems will be
emphasized in this course. Prerequi-
sites: EGM 3311, MAP 2302, or
permission of the instructor.

EGM 5346 Computational Engineer-
ing Analysis (3). Application of
computational methods to mechanical
engineering problems of translational,
rotational, control, thermal and fluid
systems employing linear/nonlinear
system elements. Prerequisites: EML
2030 or CGS 2420 or CGS 2423, MAP
2302 or EGM 3311, and EML 3222, or
permission of the instructor.

EGM 5354 Finite Element Method
Applications in Mechanical Engineer-
ing (3). Utilize the finite element
method to solve problems in heat
transfer, fluid dynamics, diffusion,
acoustics, vibrations, and electromag-
netism, as well as the coupled inter-
action of these phenomena. Prerequi-

EGM 5615 Synthesis of Engineering Mechanics (3). Unified approach to the analysis of continuous media using constitutive equations, mechanical behavior of materials and their usefulness in handling failure theories and composite materials. Prerequisites: MAP 2302 or EGM 3311, and EMA 3702.

EGM 5935 Review of Topics in Mechanical Engineering (4). To prepare qualified candidates to take the Mechanical Engineering PE written examination. Reviewed courses include: Thermodynamics, Fluid Mechanics, Mechanics of Materials, Mechanical Design and Heat Transfer.

EGN 1100 Introduction to Engineering (2). This course will provide a broad exposure, "birdseye" view, of the engineering profession to entering freshmen.

EGN 1110C Engineering Drawing (3). Laboratory experiences in the principles and practice of idea development and expression through free hand sketching and conventional instrument drafting. A beginning course for students with no prior drafting experience.

EGN 3311 Statics (3). Forces on particles, and two and three dimensional rigid bodies, equilibrium of forces, moments, couples, centroids, section properties, and load analysis of structures; vector approach is utilized. Prerequisites: MAC 2312 and PHY 2048.

EGN 3321 Dynamics (3). Study of the motion of particles and rigid bodies, conservation of energy and momentum. A vector approach is utilized. Prerequisite: EGN 3311.

EGN 3343 Thermodynamics 1 (3). Fundamental concepts of basic thermodynamics including first and second law topics, equations of state and general thermodynamic relationships. Prerequisites: MAC 2312, PHY 2048, and CHM 1045.

EGN 3365 Materials in Engineering (3). A study of materials used in engineering. Includes atomic structure phase diagrams and reactions within solid materials. Prerequisite: CHM 1045, MAC 2311 and PHY 2048.

EGN 5367 Industrial Materials and Engineering Design (3). Industrial materials, material selection, and engineering design process, including synthesis, analysis, optimization, and evaluation.


EMA 3066 Polymer Science and Engineering (3). Introduction to molecular structure; property relationships; preparation, processing and applications of macromolecular materials. Prerequisite: EGN 3365.

EMA 3702 Mechanics and Materials Science (3). A mid-level course addressing the selection of engineering materials based on static and dynamic loadings, environmental analysis and the experimental analysis of mechanical systems. Emphasis on metals and composite materials. Prerequisite: EGN 3311.


EMA 4121 Physical Metallurgy (3). Correlation of properties; structural, mechanical, and thermal history and service behavior of various metals and their alloys. Prerequisite: EGN 3365.

EMA 4121L Materials Laboratory (1). Laboratory techniques in materials, including metallography, mechanical testing, heat treatment and non-destructive testing techniques. Prerequisite: EGN 3365.

EMA 4223 Mechanical Metallurgy (3). Fundamentals of plastic deformation of crystalline solids: elementary theory of statics and dynamics of dislocations; applications to deformation of single crystals and polycrystals; fracture of metals. Prerequisites: EGN 3365 and EMA 3702.

EMA 5295 Principles of Composite Materials (3). The mechanical behavior of composite materials used in the automotive, aircraft and sporting goods industries. Material and laminar properties; design of composites; failure analysis; and environmental effects. Prerequisite: EGM 5615 or permission of the instructor.

EMA 5507C Analytical Techniques of Materials Sciences (3). Fundamental theories and techniques of the analytical methods for materials including: X-ray diffraction, scanning and transmission electron microscopy, thermal and surface analysis, and vacuum systems. Prerequisite: EGN 3365.

EMA 5584 Biomaterials Science (3). Materials used in prostheses for skin and soft tissue, vascular implant devices, bone repair, and artificial joints. Structure-property relationships for biological tissue. Prerequisites: EGN 3365, and EMA 3702.

EMA 5925 Advanced Topics in Materials Engineering (3). Topics include thermodynamics of solids, principles of physical metallurgy, including phase transformation and diffusion and analytical methods in materials engineering. Prerequisites: EGN 3343 and EGN 3365.

EMC 5415 Digital Control of Mechanical Systems (3). Discrete modeling of mechanical systems. Digital feedback with emphasis on hydraulic, pneumatic and electro-mechanical devices. Prerequisite: EML 4312.

EML 2030 Software for Mechanical Design (3). Students will use software to develop solid models and a mathematical software package to solve mechanical engineering problems. A programming language will be used to define input parameters. Prerequisite: EML 1100 or EML 3006, Corequisite: MAC 2313.

EML 3006 Concepts of Engineering (2). Provide a broad exposure, "birdseye" view, of the engineering profession to junior and senior transfer students. To be completed within two terms after admission to the ME program.

EML 3101 Thermodynamics II (3). Continuation of Thermodynamics I covering reactive and nonreactive
mixtures and various thermodynamic cycles. Prerequisite: EGN 3343.

EML 3126 Transport Phenomena (3). Fundamental principles of transport phenomena; Governing Equations; Compressible Flow. Prerequisite: EGN 3321 or EGN 3343, and MAP 2302 or EGM 3311.

EML 3126L Transport Phenomena Laboratory (1). Experiments illustrating the principles of transport phenomena: wind tunnel, shock tubes, airfoils. Prerequisite: EGN 3321, Corequisite: EML 3126.

EML 3222 System Dynamics (3). Introduction to modeling of mechanical systems; derivation of system equations and response of fluid, thermal, and vibrational systems. Available solution methods will be discussed. Prerequisites: EGN 3321, EMA 3702, EML 2030 or CGS 2420 or CGS 2423.

EML 3262 Kinematics and Mechanism Design (3). Fundamentals of kinematics and mechanism design; study of the mechanisms used in machinery and analysis of their motion. Two and three dimensional analytical and numerical methods of computer application. Design is emphasized. Prerequisites: EGN 3321, EML 2030 or CGS 2420 or CGS 2423.

EML 3301C Instrumentation (3). A practical study of common instrumentation techniques. The use of instrumentation and measurement methods to solve problems is emphasized. Prerequisite: EEL 3003 or EEL 3111.

EML 3301L Instrumentation and Measurement Laboratory (1). A practical study of common instrumentation elements and measurement systems used in mechanical and electro-mechanical applications. Prerequisite: EEL 3111L.


EML 3500 Mechanical Design I (3). Design of basic machine members including shafts, springs, belts, clutches, chains, etc. Prerequisites: EGN 3321, EMA 3702, and EGN 3365.

EML 4140 Heat Transfer (3). Study of the fundamentals of heat transfer including conduction, convection, and radiation. Computer applications and design problems emphasized. Prerequisites: EML 2030 or CGS 2420 or CGS 2423, EGN 3343, EML 3126, and MAP 2302 or EGM 3311.

EML 4220 Mechanical Vibrations (3). Theory and application of mechanical vibrations. Includes damped and undamped vibrations with one or more degrees of freedom computer methods emphasized. Prerequisites: EGN 3321, EMA 3702, and EML 2030 or CGS 2420 or CGS 2423.

EML 4246 Tribological Design for Machines and Elements (3). Introduction to friction and wear, analysis of tribological systems, and applications of Tribological Principles to machine and machine element design. Prerequisite: EML 4501 or permission of the instructor.

EML 4260 Dynamics of Machinery (3). Acceleration and force analysis of reciprocating and rotating mechanisms and machines. Dynamic balancing of idealized systems. Torsional and lateral critical speeds of a rotor and self-excited instability. Prerequisite: EML 3262.

EML 4312 Automatic Control Theory (3). Feedback control systems; stability analysis; graphical methods. Applications with emphasis on hydraulic, pneumatic and electro-mechanical devices. Prerequisites: EGN 3321, MAP 2302 or EGM 3311, EML 2030 or CGS 2420 or CGS 2423.

EML 4410 Combustion Processes (3). Introduction to combustion pro cesses, thermochemistry, chemical kinetics, laminar flame propagation, detonations and explosions, flammability and ignition, applications in IC engines and gas turbines. Prerequisites: EML 3101 and EML 4140.


EML 4501 Mechanical Design II (3). Continuation of design analysis of elementary machine elements, including lubrication bearings, and gears. Introduction to advanced analysis techniques. Prerequisite: EML 3500.

EML 4503 Production Machine Modeling and Design (3). The modeling of metal removing, forming, and polymer processing operations will be introduced. The design of production machines will be discussed based on the models. Prerequisites: EGN 3365, EMA 3702, and EIN 3390.

EML 4535 Mechanical Computer Aided Design (3). Introduction to the use of computers in the design process. Course emphasizes the use of interactive computing and computer graphics in developing CAD applications. Programming project is required. Prerequisite: EML 2030.

EML 4551 Design Project Organization (1). Design project organization to include objectives, concepts selection, preliminary and detail design, prototype development and testing. Oral and written presentation of design plan by project team. Prerequisite: EML 3301L, Corequisites: EML 4501, EML 4706, and EIN 3354.

EML 4561 Introduction to Electronic Packaging (3). Introduction to mechanical packaging of electronic systems. Integrates concepts in mechanical engineering to the packaging of electronic systems, such as hybrid microelectronics. Prerequisites: EEL 3003 or EEL 3111, and EEL 3111L.

EML 4585 Design of Biomedical Systems and Devices (3). Mechanical design and material choices of various biomedical systems and devices such as cardiovascular assist devices, total artificial heart, pulmonary assist devices, total hip prosthesis and other orthopaedic devices. Prerequisites: EGN 3365, EMA 3702, EML 3126 or permission of the instructor.

EML 4601 Refrigeration and Air Conditioning (3). Application of principles of Heating, Ventilation, Refrigeration, and Air Conditioning to design problems. Prerequisite: EML 3101 or permission of the instructor.
EML 4601L Refrigeration and Air Conditioning Lab (1). Experiments in Air Conditioning and Refrigeration applications. Corequisite: EML 4601.

EML 4603 Air Conditioning Design (3). Psychrometry comfort; mechanical refrigeration; heat pumps, load calculations; cooling coil performance; heating and humidification; distribution duct and fan design. Prerequisites: EML 3101 and EML 4140 or permission of the instructor.

EML 4608C Mechanical Systems in Environmental Control (3). Analysis of refrigeration, heating and air distribution systems. Synthesis of environmental control systems. Prerequisite: EML 3101.

EML 4702 Fluid Dynamics (3). A mid-level course on ideal fluid flow, compressible flow and viscous flow. Analysis and numerical techniques of continuum and Navier-Stokes equation for incompressible and compressible flow. Prerequisite: EML 3126.

EML 4706 Design of Thermal and Fluid Systems (3). Design of thermal and fluid systems and components. Piping networks, duct works. Selection of pumps and fittings. Basic design of heat exchangers, turbomachinery, pumps, and fans. Prerequisites: EML 3101 and EML 4140.

EML 4711 Gas Dynamics (3). Basic equations of motion for the flow of a compressible fluid, isentropic flow, normal and oblique shock waves, linearized flows method of characteristics and supersonic thin-air foil theory. Prerequisites: EML 3126 and EGN 3343.

EML 4804 Introduction to Mechatronics (3). This course will introduce computer controlled precise motion generation in smart machines. Prerequisite: EML 3301L.


EML 4823 Introduction to Sensors and Signal Processing (3). This course will introduce the basic sensors and signal processing techniques for design and development of smart products. Prerequisite: EML 3301L.

EML 4905 Senior Design Project (3). Project course introducing methods of research; a survey, analysis, or apparatus project in mechanical engineering or research on a current problem in engineering. Prerequisites: EML 3301L and permission of the advisor. Corequisites: EML 4501, EML 4706.

EML 4906L Mechanical Lab (1). Experiments with various types of mechanical equipment including engines, fans, boilers, pumps, motions and mechanics. Prerequisites: EGN 3343 and EML 3126.

EML 4930 Special Topics/Projects (1-3). Individual conferences, assigned readings, and reports on independent investigations selected by the students and professor with approval of advisor.

EML 4949 Co-op Work Experience (3). Supervised full-time work experience in engineering field. Limited to students admitted to the co-op program with consent of advisor. Evaluation and reports required.

EML 5103 Intermediate Thermo Dynamics (3). Thermodynamic approach to processes and engines; alternative formulations and legenldre transformations; maxwell relations, first and second order phase transitions. Prerequisite: EML 3101.

EML 5104 Classical Thermodynamics (3). Mathematical analysis of the laws of classical reversible and irreversible thermodynamics. Applications to mechanical, electro-magnetic, and chemical systems. Prerequisite: EML 3101.


EML 5385 Identification Techniques of Mechanical Systems (3). FFT, time series analysis and neural networks are introduced. Applications of these techniques are discussed for identification of mechanical structures and machine diagnostics. Prerequisite: EML 4312.

EML 5412 Combustion Processes (3). Introduction to combustion pro cesses, thermochemistry, chemical kinetics, laminar flame propagation, detonations and explosions, flammability and ignition, applications in IC engines and gas turbines. Prerequisites: EML 3101 and EML 4140.

EML 5509 Mechanical Design Optimization (3). Finite element analysis and sensitivity analysis combined with numerical optimization techniques to optimize design. Prerequisite: EGM 5354 or permission of the instructor.

EML 5505 Smart Machine Design and Development (3). Design of independently operating smart electromechanical systems (most consumer products) which monitor their environment, give decisions, and create motion. Prerequisite: EML 4312 or consent of the instructor.


EML 5519 Fault-Tolerant System Design (3). Fault tolerance in mechanical, manufacturing, computer, and aerospace systems. Basic stages of fault isolation. Fault tolerance measures, architectures, and mechanical system design methodologies. Prerequisite: EML 3500.

EML 5528 Digital Control of Mechanical Systems (3). Discrete modeling of mechanical systems. Digital feedback systems. Computer interface with mechanical systems. Controller design with emphasis on hydraulic, pneumatic and electro-mechanical devices. Prerequisite: Permission of the instructor.

kinematic systems will be emphasized. Prerequisite: EML 4535 or permission of the instructor.

**EML 5562 Advanced Electronic Packaging (3).** Advanced topics in electronic packaging. Evaluation of first through fourth level assembly. Applications of computer layout design, thermal management and mechanical stability analysis. Prerequisite: EML 4561 or permission of the instructor.

**EML 5599 Heat Pipe Theory and Applications (3).** Heat pipe theory, heat pipe design and its applications, especially in the areas of energy conversion and conservation. Prerequisites: EML 3101 and EML 4140.

**EML 5606C Advanced Refrigeration and Air Conditioning Systems (3).** The various methods used in the thermal design and analysis of both refrigeration and heat pump systems are investigated. Various methods of producing heating and cooling are examined including vapor compression, absorption, air cycle, steam jet, thermoelectric, solar heating and cooling systems. Prerequisite: EML 4601.

**EML 5615C Computer-Aided Design in Air Conditioning (3).** Software will be used to demonstrate heating, ventilating and air conditioning design concepts and sizing equipment & determining performance parameters. Project design is required. Prerequisites: EML 2030 or CGS 2420 or CGS 2423, and EML 4601.

**EML 5708 Advanced Design of Thermal and Fluid Systems (3).** Advanced designs of pumps, compressors, heat exchangers, HVAC systems and thermal and fluid control devices. Prerequisite: EML 4706.

**EML 5709 Intermediate Fluid Mechanics (3).** Basic concepts and scope of fluid dynamics; non-inertial reference frames. Two-dimensional potential theory. Applications to airfoils. The Navier-Stokes equations; selected exact and approximate equations. Prerequisite: EML 3126.

**EML 5748 Boundary Layer Theory (3).** Advanced fluid dynamic analysis of the Navier - Stokes equations, using boundary layer assumptions. Focus will be on solutions of thermal and fluid boundary layers. Prerequisite: EML 3126.

**EML 5808 Control Technology for Robotic Systems (3).** State-space equations of robots. Controller design based on linearization, nonlinearity cancellation, optimal control, adaptive control, and other methods. Stability analysis, performance comparison. Prerequisites: EGN 3321, EML 4312, or equivalent.

**EML 5825 Sensors and Applied Machine Intelligence (3).** Sensors, signal analysis techniques, and error compensation methods will be introduced for machine intelligence. Prerequisites: EML 4312, EML 4503, or equivalent, or permission of the instructor.
Construction Management

John M. Dye, Chairperson
Syed Ahmed, Assistant Professor
Amaury A. Caballero, P.E., Assistant Professor
Kenneth H. Carpenter, Associate Professor
Bhaskar Chaudhari, P.E., Professor
Eugene D. Farmer, A.I.A., Associate Professor
Jose D. Mitrani, P.E., Associate Professor
Zeljko M. Torbica, Assistant Professor

Bachelor of Science in Construction Management

Degree Program Hours: 126

The undergraduate program in Construction Management is nationally accredited by the American Council for Construction Education. Its goal is to provide students with the knowledge and skills required for entry level supervisory or managerial positions in the construction industry. Graduates usually find employment as project managers, project schedulers, cost estimators, quality controllers or in managing their own construction firms.

Opportunities for employment or advancement exist in all areas of the construction industry including land development, home building, public building, industrialized building systems, commercial, construction, marine and highway heavy construction, underwater and space age facilities, material and equipment sales and installations, and construction product research, development and sales.

Honorary and Professional Organizations

Sigma Lambda Chi: Sigma Lambda Chi is the national honor society for students in Construction. The purpose of Sigma Lambda Chi is to recognize students in Construction Management for outstanding scholastic achievement. The organization provides a service to the students by inviting guest lecturers, sponsoring student tutoring and undertaking a variety of service projects.

Student Chapter of the Associated General Contractors of America: The AGC is a national student organization sponsored by the Associated General Contractors. Its purpose is to increase student awareness of the construction industry, promote fellowship and professionalism and to provide service to the Department, University and Community. Membership is open to all Construction related majors. Activities include sponsoring guest lecturers, attendance at local, regional and national A.G.C. meetings and conferences, and undertaking a variety of service projects.

Student Chapter of the National Association of Women in Construction: This national student organization is sponsored by the National Association of Women in Construction. Its purpose is to promote knowledge of the construction industry and fellowship within the student body. Activities include monthly meetings with guest lecturers, field trips and a variety of service projects. The FIU student chapter of NAWIC was the first such chapter established in the United States. Membership is open to all construction related majors.

Program of Study

The four year program leading to a Bachelor of Science in Construction Management is for students who are interested in preparing for professional careers in construction management, operations, and related areas in the construction industry.

The Lower Division Core Courses, i.e. Freshman and Sophomore levels, are selected to provide easy transfer for community college graduates. With proper planning, full time transfer students with an A.A. degree are able to complete the four year degree program in four remaining semesters at the University. Prospective community college transfer students should contact an advisor for program information and Lower Division transfer requirements.

Students already working full or part time, many with trades or construction licenses, are generally able to plan their program around job commitments and responsibilities. Faculty advisors are on hand days and evenings to assist students in course selection and scheduling.

Admission

The Department of Construction Management encourages applications for admission from qualified students regardless of gender, from all cultural, racial, religious or ethnic groups.

Grade Point Average

Admission into the undergraduate program requires a minimum 2.0 grade point average. Students transferring from another university or community college should review the Florida International University Undergraduate Catalog for university policies, application procedures, and financial aid information. Transfer students should also contact a Construction Management advisor to review transcripts and determine allowable transfer credits.

Transfer Credits

No grade below a 'C' in any required course is acceptable for transfer into the program. Lower Division courses (courses at the 1000 or 2000 level) designated as equivalent by the statewide course numbering system will be accepted by the Department as fulfilling the Upper Division requirements. Credits from these Lower Division courses may be used to offset Upper Division core credit requirements. Other 1000 and 2000 level courses designated as equivalent by a department advisor may be accepted by the Department as fulfilling Upper Division requirements. When equivalent Lower Division courses are used to fulfill Upper Division course requirements a student will be required to complete an equal number of 3000 level (or above) credits from approved Departmental electives. Transfer credits above the 60 semester credit hours accepted from the community college system will not reduce the number of credit hours to be completed in the Upper Division, including electives, to earn a degree.

Core and General Education Requirements

Students entering the university with less than 36 semester credit hours will be required to meet the requirements of the University Core Curriculum, in addition to the Department Lower Division Core. Students entering the university with more than 36 semester credit hours will be required to meet the University General Education requirements, in addition to the Department Lower Division Core. Students should review the General Education and Core Requirements in the undergraduate catalog.

Non Degree-Seeking

Students wishing to enroll in courses during the application process may do so as a non-degree seeking, special student. Students must consult an advisor for approval and complete a
non-degree seeking enrollment waiver. Without this waiver and advisor approval, there is no guarantee that the courses taken will be accepted for graduation. No more than 15 semester credits of work taken as a non-degree seeking can be applied towards graduation. Students taking courses under the special student designation should consult other sections of this catalog for their pertinent regulations concerning the special student status.

General Regulations

Normal Loads
Students taking a minimum of 12 semester credit hours per semester are considered full time students. Students taking under 12 hours are considered part-time and should be aware that certain university privileges and benefits may not be applicable to part-time students. It is not recommended that students take more than 18 credit hours per term. Special exceptions may be made, at the option of the Department, in the case of students with a grade point average of 3.0 or greater. Students that meet this criteria wishing to take over 18 semester credit hours must have the approval of both the Chairperson of the Department and the Dean of the College of Engineering prior to registering.

Grades
The Department of Construction Management requires a minimum grade of 'C' or better in all required courses and electives. This includes those required, courses from other institutions.

Grade of Incomplete
A grade of 'I' (Incomplete) may be granted, at the option of the Instructor, to a student who, due to serious, documented, and verifiable extenuating circumstances beyond his/her control is unable to complete the work required to obtain a grade for a course. A student granted a grade of 'I' must complete the work deemed necessary by the Instructor to complete the course as rapidly as possible. The grade will automatically revert to a grade of 'F' (Failing grade) if the work is not completed within two terms.

Independent Study
Students who wish to enroll in an independent study course must have the prior written approval of both the instructor and the Department Chairperson. Independent Study courses can not be substituted for required Lower or Upper Division departmental core courses or for elective courses.

Credit By Examination
The Department does not generally offer credit by examination. A student with outstanding, exceptional and documented skills in a particular subject as well as an outstanding academic record may request credit by examination, and it is the option of the Department Faculty and the Department Chairperson whether to grant the request.

Credit For Non-College Learning
The Department does not award credit for non-college learning (life work experience).

Student Work
The Department reserves the right to retain any and all student work for the purposes of record, exhibition or instruction.

Normal Academic Progress
The student will have maintained normal academic progress when the student earns a minimum grade point average of 2.0 for all work attempted.

Course Sequence and Prerequisites
Course prerequisites are clearly indicated on the Undergraduate Program sheets, available in the Department office. It is the student's responsibility, not the advisor's, to ascertain that required prerequisites have been taken and passed prior to registering for a course. Failure to comply with prerequisite requirements may result in the student being dropped from a class.

Probation or Dismissal
Students who do not make satisfactory academic progress may be excluded from further registration. Students dismissed from the University for academic reasons will normally not be allowed to re-enroll for one year.

Class Attendance
Class attendance may be required and may be used for grade determination at the option of the instructor.

Graduation
In order to be eligible to graduate the student must meet all University and Departmental requirements. The program of studies consists of a minimum of 60 Lower Division semester credit hours and 66 Upper Division semester credit hours for a minimum total of 126 semester credit hours. The waiving of any required course shall not reduce the minimum of 126 semester credit hours required for graduation. A student must have successfully completed the University Core Curriculum (for those students that entered the program having completed less than 36 semester credit hours) or the University General Education Requirements (for those students that entered the program having completed more than 36 semester credit hours) with minimum acceptable grades as determined by Undergraduate Studies (see catalog for additional information). In addition, all required Lower Division and Upper Division Construction Management courses and electives must be completed with a grade of 'C' or better. In order to graduate a student must also have a minimum grade point average of 2.0, have successfully completed all portions of the CLAST test, and have met the foreign language requirement.

Students should contact an advisor at least one semester prior to their projected graduation and request a review of his or her file. At the start of the final semester the student is required to complete an Application for Graduation, available from the Department. (See catalog for additional information on graduation procedures and scheduling.) If for any reason a student fails to graduate in the semester after applying for graduation, they must reapply.

It is the student's responsibility, not the advisor's responsibility, to ascertain that all requirements for graduation, have been met.

Foreign Language Requirement
Students must meet the University Foreign Language Requirement. Refer to the appropriate sections in the Catalog's General Information for Admission and Registration and Records.

Undergraduate Curriculum
The following courses comprise the undergraduate curriculum leading to a degree of Bachelor of Science in Construction Management. Courses numbered 'I' shall be taken before courses numbered 'II'. Some credits of the Lower Division Core can be used to satisfy University Core or General Education requirements. Satisfactory
completion of BCN 4910, Senior Project, requires that the student enroll in, and complete, the Level I American Institute of Constructors Examination. Information concerning the test dates is available from the Department's Undergraduate Coordinator.

University Requirements

First time students or transfer students with less than 36 credit hours must meet the University's core requirements as outlined in this catalog. Transfer students with more than 36 credit hours are required to meet the University's General Education requirements as outlined in the catalog.

**Departmental Lower Division Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 1010</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GLY 1010L</td>
<td>Physical Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BCN 1252</td>
<td>Building Construction Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>BCN 2210</td>
<td>Construction Materials</td>
<td>3</td>
</tr>
<tr>
<td>BCN 2256</td>
<td>Building Construction Drawing II</td>
<td>4</td>
</tr>
<tr>
<td>BCN 2402</td>
<td>Structural Design I</td>
<td>3</td>
</tr>
<tr>
<td>BUL 4320</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Calculus For Business</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2053</td>
<td>Physics without Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2048L</td>
<td>Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>COP 2172</td>
<td>Programming in Basic</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2023</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ACG 3024</td>
<td>Accounting For Managers</td>
<td>3</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Statistics for Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>BCN 2281</td>
<td>Construction Surveying</td>
<td>3</td>
</tr>
</tbody>
</table>

**Upper Division Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCN 3002</td>
<td>Principles of Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3730</td>
<td>Construction Safety</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3740</td>
<td>Legal Aspects of Construction</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3762</td>
<td>Building Codes and Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4461</td>
<td>Structural Design II</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4462</td>
<td>Structural Design III</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3611</td>
<td>Construction Cost Estimating I</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4612</td>
<td>Construction Cost Estimating II</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3720</td>
<td>Construction Scheduling I</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4724</td>
<td>Construction Scheduling II</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3354</td>
<td>Engineering Economy</td>
<td>3</td>
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<tr>
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<tbody>
<tr>
<td>BCN 3640</td>
<td>Economic Planning for Construction</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3753</td>
<td>Financial Management of Construction Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3727</td>
<td>Construction Sitework</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4465</td>
<td>Temporary Structure in Construction</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4561</td>
<td>Environmental Control in Buildings I</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4564</td>
<td>Environmental Control in Buildings II</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3703</td>
<td>Management of Construction Projects</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4910</td>
<td>Business Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

'Consult the Department of Construction Management advisor for approved courses to satisfy these requirements.

**Business-Management Elective**

One 3000 or 4000 level 3 credit business/manager elective, selected in consultation with the undergraduate advisor of the department.

**Sample Program of Study**

The following is a sample program of study for a student seeking to earn a degree of Bachelor of Science in Construction Management. This program of study assumes the student has successfully completed MAC 2132 (Pre-Calculus Mathematics) or its equivalent prior to enrolling in the Department. The reader is reminded that all students entering a university in the State University System need fewer than 60 credit hours are required to earn at least nine credit hours prior to graduation by attending one or more summer terms at a state university.

**Bachelor of Science in Construction Management**

**Degree Program Hours: 126**

**Undergraduate Program**

The following analysis assumes that the student enters the university from high school or with less than 36 credits and no foreign language experience.

**First Semester: (18)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>Elements of Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Calculus For Business</td>
<td>3</td>
</tr>
<tr>
<td>GLY 1010</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GLY 1010L</td>
<td>Geology Lab I</td>
<td>1</td>
</tr>
<tr>
<td>BCN 1252</td>
<td>Building Construction Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>BCN 3002</td>
<td>Introduction to Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>SLS 1501</td>
<td>Freshman Experience</td>
<td>1</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Literary Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Statistics for Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2053</td>
<td>Physics w/q Calculus</td>
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</tr>
<tr>
<td>PHY 2048L</td>
<td>Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td>BCN 2256</td>
<td>Building Construction Drawing II</td>
<td>4</td>
</tr>
<tr>
<td>ECO 2013</td>
<td>Principles of Macroeconomics</td>
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</tbody>
</table>

**Second Semester: (18)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>BCN 3640</td>
<td>Economic Planning for Construction</td>
<td>3</td>
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<tr>
<td>BCN 3753</td>
<td>Financial Management of Construction Organizations</td>
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<tr>
<td>BCN 3727</td>
<td>Construction Sitework</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4465</td>
<td>Temporary Structure in Construction</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4561</td>
<td>Environmental Control in Buildings I</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4564</td>
<td>Environmental Control in Buildings II</td>
<td>3</td>
</tr>
<tr>
<td>BCN 3703</td>
<td>Management of Construction Projects</td>
<td>3</td>
</tr>
<tr>
<td>BCN 4910</td>
<td>Business Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Third Semester: (15)**

- Foreign Language
- Historical Foundations
- Arts
- BCN 2210 Construction Materials
- COP 2172 Programming in Basic
- BCN 3240 Construction Equipment

**Fourth Semester: (15)**

- Foreign Language
- Critical Inquiry
- Comparative Culture and Gender Studies
- ACG 3024 Accounting for Managers
- BCN 2281 Construction Surveying
- EIN 3354 Engineering Economy

**Fifth Semester: (15)**

- BUL 4320 Business Law
- BCN 3727 Construction Sitework
- BCN 2402 Structural Design I
- BCN 3611 Construction Estimating I
- BCN 3730 Construction Safety

**Sixth Semester: (18)**

- BCN 3762 Building Codes and Quality Control
- BCN 3720 Construction Scheduling I
- BCN 3740 Legal Aspects of Construction
- BCN 4612 Construction Estimating II
- BCN 4461 Structural Design II
- BCN 4462 Structural Design III

**Seventh Semester: (15)**

- BCN 3640 Economic Planning for Construction
- BCN 4561 Environmental Control I
- BCN 4724 Construction Scheduling II
- BCN 4465 Temporary Structures
- BCN 3703 Management of Construction Projects

**Eighth Semester: (12)**

- BCN 3753 Financial Management of Construction Organizations
Course Descriptions

Definition of Prefixes

BCN-Construction.

BCN 1252 Building Construction Drawing I (4). The laboratory application of Methods and Materials of Construction I. Students prepare plans, elevations, sections, and details appropriate to general construction. Prerequisite: BCN 1252 and BCN 1002.

BCN 2210C Construction Materials (3). A study of the origins, production and uses of construction materials such as concrete, steel, aluminum, wood, brick, and stone. A combination of structural and non-structural, interior and exterior materials and assemblies will be examined.

BCN 2256C Building Construction Drawing II (4). The laboratory application of Methods and Materials of Construction II. Students prepare plans, elevations, sections, and details appropriate to general construction. Prerequisite: BCN 1252 and BCN 1002.

BCN 2281 Construction Surveying (3). Principles and practices of surveying as it applies to building construction. Prerequisite: Trigonometry.

BCN 2402C Structural Design I (3). Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns. Prerequisites: PHY 2053, 3043L, and MAC 2132.

BCN 3002 Principles of Construction Management (3). A course covering the history of the construction industry with emphasis on the principles of construction management.

BCN 3240 Construction Equipment (3). Methods, procedures, and equipment used in residential, commercial, and heavy construction. Equipping the construction plant. Production value analysis. Work effectiveness studies. Prerequisite: MAC 2132 or equivalent.

BCN 3611 Construction Cost Estimating I (3). Principles and practices of estimating providing application and drill in surveying quantities of labor and materials for general construction projects: excavation, concrete and formwork, carpentry, masonry, structural steel, plaster and plaster, interior finishes. Prerequisites: ARC 1461 and BCN 2256.

BCN 3640 Economic Planning for Construction (3). Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures. Prerequisites: MAC 2132 and BIN 3354, or equivalent.

BCN 3703 Management of Construction Projects (3). Organization and management theory elements of leadership and human supervision, organization, office operations, labor relations, safety, and work improvement, as they relate to project field operations. Prerequisites: BCN 3762 BCN 3740, BCN 3730, and senior level standing.

BCN 3720 Construction Scheduling I (3). The application of the Critical Path Method and Program Evaluation Review Technique to construction planning, scheduled vs. actual job expenditures. Cost forecasting. Development of unit prices from field data. Laboratory is included, which consists of computer applications. Prerequisite: MAC 2132.

BCN 3727 Construction Sitework (3). Exposition and critical analysis of practical and sequential aspects of converting raw land to finished product. Course will define various steps and discuss techniques of accomplishment. Prerequisites: BCN 3240, GLY 1010, and BCN 2256. (F)

BCN 3730 Construction Safety (3). Introduces occupational safety hazards associated with the construction industry. Emphasis placed on recognition, evaluation, and control of safety hazards particularly as they relate to the Occupational Safety and Health Act. Prerequisite: Introduction to Construction Management.

BCN 3740 Legal Aspects of Construction (3). Legal and business aspects of engineering contracts and specifications in the construction industry. Analysis, study of precedents, and application of contract clauses, including changes, changes conditions, termination, disputes, payments, risk and insurance, inspection, liquidated damages, and technical requirements. Prerequisites: BUL 4320 and Introduction to Construction Management.

BCN 3753 Financial Management of Construction Organizations (3). Accounting for construction operations; labor, materials, equipment, and overhead costs. Money management, depreciation, taxes, loans, profit/losses analysis. Prerequisite: ACG 3024 or equivalent.

BCN 3761 Specifications Writing (4). Study of methodology for acquisition of information and transmission of technical and legal requirements for construction projects. Preparation of outline specifications, building description, and purchasing specifications. Problems of format, reviewing, and updating. Prerequisites: ARC 3463, BCN 3257, BCN 3762 and BCN 3740 or consent of instructor.

BCN 3762 Building Codes and Quality Control (3). Study of building codes required by local, county, and state levels and their relation to quality control. Prerequisite: BCN 1002 and ARC 1461.

BCN 4260 Quality Control in Construction (3). Quality control as governed by the job inspector, contractor superintendent, architect-engineer, building official, and government agencies and requirements. Prerequisite: BCN 3762 or equivalent.

BCN 4461C Structural Design II (3). An introduction to the material properties, allowable stresses, applicable codes and standards for the design of timber and steel structures. Prerequisite: BCN 2402C. (S)

BCN 4462C Structural Design III (3). An introduction to the material properties, allowable stresses, applicable codes and standards for the design of reinforced concrete structures. Prerequisite: BCN 2402.

BCN 4465 Temporary Structures in Construction (3). The course will present the theory and practice of the planning, erection, procedures, and maintenance of temporary structures that are used in the performance of construction operations. Prerequisites: BCN 4461, BCN 3730, and BCN 4462.

BCN 4561C Environmental Control in Buildings I (4). A study of concepts and systems for providing optimum thermal, lighting, plumbing, and acoustical conditions, in both com-
commercial and residential buildings. Prerequisite: Physics.

**BCN 4564 Environmental Control in Buildings II (3).** Concepts and practices of electrical systems in the construction of residential and commercial buildings, including code provisions and cost estimates. Prerequisite: MAC 2132.

**BCN 4612 Construction Cost Estimating II (3).** Quantity take-offs and pricing, marketing policies and the application of microcomputers in construction estimating. Prerequisite: BCN 3240, BCN 3611 and BCN 3727.

**BCN 4724 Construction Scheduling II (3).** The application of advanced computerized planning, scheduling, and simulation techniques to construction operations, processes, and control. Prerequisites: BCN 3720 and BCN 3611.

**BCN 4906 Special Topics (3).** For a group of students who wish an intensive study of a topic not otherwise offered in the University. Prerequisite: Permission of the instructor and the Department Chair.

**BCN 4905 Directed Independent Studies (VAR).** Specialized intensive study in an area of special interest to the student. Prerequisite: Permission of the instructor and the Department Chair.

**BCN 4910 Senior Project (3).** This course requires the senior level construction management student to work on a project designed to integrate the knowledge acquired in multiple topics within the undergraduate curriculum. Prerequisites: All BCN courses except 3640, 3753, and 4564.
College of Engineering

Dean
Vish Prasad

Associate Dean for Academic Programs
James R. Story

Associate Dean for Graduate Studies and Research
Martha A. Centeno

Chairperson, Civil and Environmental Engineering
L. David Shen

Chairperson, Construction Management
John M. Dye

Chairperson, Electrical and Computer Engineering
Kang Yeo

Chairperson, Industrial and Systems Engineering
Shih-Ming Lee

Director, Center for Advanced Technology and Education
Malek Adjouadi

Director, Cardiovascular Center
James E. Moore, Jr.

Director, Future Aeronautics Science and Technology Center
Norman Munroe

Director, Future Aeronautics Center
Chin-Sheng Chen

Director, Telecommunications and Information Technology Institute
Niki Pissinou

Director, Water Research Center
Berrin Tansel

Faculty

Adjouadi, Malek, Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering; Director, CATE

Ahmad, Iritshad, Ph.D., P.E. (University of Cincinnati), Associate Professor, Civil and Environmental Engineering

Ahmed, Syed M., Ph.D. (Georgia Institute of Technology), Assistant Professor, Construction Management

Andrian, Jean, Ph.D., P.E. (University of Florida), Associate Professor, and Graduate Program Director, Electrical and Computer Engineering

Babij, Tadeusz, Ph.D. (Technical University, Wroclaw, Poland), Professor, Electrical and Computer Engineering

Barrero, Armando B., Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering

Caballero, Amaury A., Ph.D., P.E. (Energy Institute of Moscow), Assistant Professor, Construction Management

Candocia, Frank, Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering

Cao, Yiding, Ph.D. (University of Dayton), Associate Professor, Mechanical Engineering

Carpenter, Kenneth H., Ed.D. (West Virginia University), Associate Professor, Construction Management

Centeno, Martha A., Ph.D. (Texas A&M University), Associate Dean and Associate Professor, Industrial and Systems Engineering

Chaudhari, Bhaskar S., Ph.D., P.E. (University of Pennsylvania), Professor, Construction Management

Chen, Chin Sheng, Ph.D. (Virginia Polytechnic Institute and State University), Professor, Industrial and Systems Engineering

Chow, Joe, Ph.D. (Carnegie Mellon University), Associate Professor, Industrial and Systems Engineering

Crumpier, Eric, Ph.D. (Northwestern University), Assistant Professor, Mechanical Engineering

Dye, John M., S.M. C.E. (Massachusetts Institute of Technology), Chairperson, Construction Management

Farmer, Eugene D., M.Arch., R.A. A.I.A. (University of Illinois), Associate Professor, Construction Management

Frank, Andreas O., Ph.D. (University of Texas, Arlington), Research Faculty, Cardiovascular Engineering Center

Franquiz, Juan, Ph.D. (University of Florida), Assistant Professor, Biomedical Engineering

Fuentes, Hector R., Ph.D., P.E., D.E.E. (Vanderbilt University), Professor, Civil and Environmental Engineering

Gan, Albert, Ph.D. (University of Florida), Assistant Professor, Civil and Environmental Engineering

Giachetti, Ronald E., Ph.D. (North Carolina State University), Assistant Professor, Industrial and Systems Engineering

Gilbar, Thomas, M.S. (Florida International University), Instructor and Undergraduate Advisor, Electrical and Computer Engineering

Gloster, Arthur S., Ed.D. (Virginia Polytechnic Institute & State University), Professor, Industrial and Systems Engineering

Gomez, Nestor, Ph.D. (Carnegie Mellon University), Assistant Professor, Civil and Environmental Engineering

Hamad, Esam, Ph.D. (University of Illinois), Associate Professor, Mechanical Engineering

Heimer, Malcolm L., Ph.D. (Penn State University), Associate Professor, Electrical and Computer Engineering

Hopkins, Gordon R., Ph.D. (University of Alabama), Professor, Mechanical Engineering and Industrial and Systems Engineering

Jolibois, Sylvan C., Jr., Ph.D. (University of California-Berkeley), Associate Professor, Civil and Environmental Engineering

Jones, W. Kinzy, Ph.D. (Massachusetts Institute of Technology), Professor, Mechanical Engineering/Manufacturing Research Center

Kengskool, Khokiat, Ph.D. (University of Missouri), Associate Professor, Industrial and Systems Engineering

Laha, Shonali, Ph.D., P.E., (Carnegie Mellon University), Associate Professor, Civil and Environmental Engineering; Drinking Water Research Center

Larkins, Grover L., Ph.D. (Case Western Reserve University), Associate Professor, Electrical and Computer Engineering

Lee, Shih-Ming, Ph.D., P.E. (Iowa State University), Associate Professor and Chairperson, Industrial and Systems Engineering

Levy, Cesar, Ph.D. (Stanford University), Professor, Mechanical Engineering

Linn, Richard, Ph.D. (Pennsylvania State University), Associate Professor, Industrial and Systems Engineering

Makk, Kia, Ph.D. (University of California at Davis), Professor, Industrial and Systems Engineering

McGoron, Anthony J., Ph.D. (Louisiana Tech University), Assistant Professor, Mechanical Engineering
Engineering

Mitran, Jose D., Engr., P.E., (University of Florida), Associate Professor, Construction Management

Mohammed, Osama A., Ph.D. (Virginia Polytech.), Professor, Electrical and Computer Engineering

Moore, Jr., James E., Ph.D. (Georgia Institute of Technology), Associate Professor, Mechanical Engineering and Director, Cardiovascular Engineering Center

Munroe, Norman, Ph.D. (Columbia University), Associate Professor and Chairperson, Mechanical Engineering

Nunoo, Charles, Ph.D. (Florida International University), Instructor/Advisor, Civil and Environmental Engineering

Palaniappa, Malathi, M.S. (Florida Atlantic University), Visiting Instructor, Electrical and Computer Engineering

Pissinou, Niki, Ph.D. (University of Southern California), Professor, Electrical and Computer Engineering; Director, Telecommunications and Information Technology Institute

Prieto-Portar, Luis A., Ph.D., P.E. (Princeton University), Professor, Civil and Environmental Engineering

Pujo, Luis, Ph.D. (Lehigh University), Instructor, Mechanical Engineering

Roebuck, Marc L., Ph.D. (University of Michigan), Associate Professor, Graduate Program Director, Industrial and Systems Engineering

Rincon, Diana, Ph.D. (University of Michigan), Assistant Professor, Mechanical Engineering

Rogge, Wolfgang F., Ph.D. (California Institute of Technology), Associate Professor, Civil and Environmental Engineering

Roig, Gustavo, A., Ph.D. (University of Florida), Associate Professor and Associate Dean, Electrical and Computer Engineering

Sanchez, Mario, M.S. (Florida International University), Instructor/Counselor/advisor, Industrial & Systems Engineering and Manufacturing Research Center

Schenck, Carmen, M.S. (Florida International University), Instructor/Counselor/Advisor, Mechanical Engineering

Schmidt, Pierre, E., Ph.D. (Pennsylvania State University), Professor and Associate Chairperson, Electrical and Computer Engineering

Schoephoester, Richard, Ph.D. (University of Iowa), Professor, Mechanical Engineering; Director, Biomedical Engineering Institute

Shen, Lon-Li, David, Ph.D., P.E., T.E. (Clemson University), Chairperson and Professor, Civil and Environmental Engineering, Director, LCTR

Story, James R., Ph.D. (University of Alabama), Associate Dean and Professor, Electrical and Computer Engineering

Tang, Walter Z., Ph.D., P.E. (University of Delaware), Associate Professor, Civil and Environmental Engineering, Director, Water Research Center

Tansel, Berrin, Ph.D., P.E. (University of Wisconsin-Madison), Associate Professor, Civil and Environmental Engineering

Tansel, Ibrahim, Ph.D. (University of Wisconsin-Madison), Associate Professor, Mechanical Engineering

Tao, Yong Xin, Ph.D. (University of Michigan), Associate Professor, Mechanical Engineering

Thompson, LeRoy E., Ph.D., P.E. (Rice University), Professor Emeritus, Civil and Environmental Engineering

Todoja, Zeljko M., Ph.D. (University of Florida), Assistant Professor of Construction Management

Tosunoglu, Sabri, Ph.D. (University of Florida), Associate Professor, Mechanical Engineering

Urban, Frank K., Ph.D. (University of Florida), Associate Professor, Electrical and Computer Engineering

Vlasov, Yuriy A., Ph.D. (Ioffe Technical Institute), Assistant Professor, Electrical and Computer Engineering

Wang, Ton-Lo, Ph.D., P.E. (Illinois Institute of Technology), Professor, Civil and Environmental Engineering

Wu, Kuang-Hsi, Ph.D., P.E. (University of Illinois), Professor, Mechanical Engineering

Wunnava, Subbarao V., Ph.D., P.E. (Andhra University), Professor, Electrical and Computer Engineering

Yen, Kang K., Ph.D., P.E. (Vanderbilt University), Professor and Chairperson, Electrical and Computer Engineering

Zhao, Fang, Ph.D., P.E. (Carnegie Mellon University), Associate Professor, Civil and Environmental Engineering
College of Health and Urban Affairs
College of Health and Urban Affairs

Dean
Ronald M. Berkman

Associate Dean
Evelyn B. Enrione

Associate Dean
Andrew Miracle

Associate Dean
Harlan Sands

Assistant Dean
Marta M. Medina

Directors, Chairpersons, and Coordinators:
School of Health
Norma Anderson

Dietetics and Nutrition
Michele Ciccazzo

Occupational Therapy
Patricia Scott

Physical Therapy
Leonard Elbaum

Public Health
H. Virginia McCoy

Communication Sciences and Disorders
Lemmietta McNeilly

School of Nursing
Divina Grossman

School of Policy Management
Terry Buss

Criminal Justice
Jose Marques

Health Information Management
Sandra McDonald

Health Services Administration
Gerry Mills

Public Administration
Keith Revell

School of Social Work
Ray Thomlison

Adminstration, and Social Work. The Doctor of Philosophy is offered in Dietetics and Nutrition, Public Administration and Social Welfare.

In addition, the College of Health and Urban Affairs is home to seven centers and institutes: The Center for the Administration of Justice; Institute of Government; Institute for Children and Families at Risk; HRS/Children, Youth and Families Professional Development Center; the Institute for Public Management and Community Service, The Life Course and Health Research Center; and the National Policy and Resource Center on Nutrition and Aging. These centers and institutes provide research and service opportunities to students while maintaining an agenda of top level research on issues critical to our community and society. Information on these centers is contained in this catalog ("General Information—Centers and Institutes").

Students interested in the academic programs offered by the College of Health and Urban Affairs are urged to contact an advisor for guidance on admissions requirements, curriculum and career planning. Please call the School of Health at (305) 348-3186, School of Nursing at (305) 919-5915, School of Policy and Management at (305) 348-5890 or School of Social Work at (305) 348-5880. The Dean’s Office may be reached at (305) 348-5840.

Changes to the Curriculum Requirements

The programs, policies, and requirements and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Regents and the Florida Legislature. This is especially true for the programs that are subject to national accreditation requirements (the majority of the degree programs in the College.) University policy changes in curriculum may be made without advance notice.

Generally, the College of Health and Urban Affairs makes every effort to minimize the impact of curriculum changes on currently enrolled students by stipulating that students complete the requirements of their degree program in effect at the time of admission or readmission to the program. In the event that this is not possible due to accreditation standards or the deletion of courses, students may be required to complete alternative degree requirements in order to graduate. All changes in a student's curriculum requirements must be noted in the student’s official file, maintained by the appropriate School. Students should review their file to ensure that all documentation of changes to their approved program of study are noted.
School of Health

Academic Support Services
The Coordinator for Academic and Student Support Services is responsible for coordinating undergraduate academic advising and student service activities for the School of Health. The Office of Student Services provides students with information about educational opportunities such as scholarships, tuition waivers and campus resources; serves as a liaison between the School of Health and university-wide student support services and facilitates registration and graduation procedures.

A student who has been accepted to a degree program in the School must consult an advisor prior to initial course enrollment. An advisor may be assigned by contacting the Chairperson of the Department. Continued contact (at least once per semester) with an advisor is encouraged to assure proper selection of courses to fulfill graduation requirements.

Interdisciplinary Courses
The School of Health offers interdisciplinary courses open to all students in the university. The current courses being offered are:

HSC 4190 Information and Communication Technology for Health Professionals (3). This online course assists the student in developing information and communication skills using the Internet. It demonstrates the use of technology in clinical practice, research and education. Prerequisite: CGS 3559.

HSC 1001C Perspectives of Health Science Professions (3). A study of public health issues, disease, preventive medicine and wellness as they relate to nutrition, physical and occupational therapy. Utilizes lab and field work.

HSC 2100 Healthy Lifestyles through Wellness (3). A survey of wellness issues including preventive health care, substance abuse pre-vention, stress management, sexually transmitted diseases, psychological illness, nutrition and exercise.

HSC 3002 Introduction to Health Science Professions (3). Introduction to health care and health science professions in the US including history, delivery systems, financial and ethical issues. Students are required to complete a service learning project.

HSC 3549 Clinical Physiology for Health Professionals (3). Clinical physiological aspects of homeostatic mechanisms, skin, muscle contraction, nervous system, gastrointestinal system, body temperature regulation and exercise physiology will be targeted toward the allied health student.

HSC 3579 Wellness of Women (3). Concepts relating to women’s health, including sexuality, preventative health care, nutrition, exercise, reproductive diseases and the social/political health care of women.

HSC 3701 Leadership and Management in Health Science Professions (2). Introduces health sciences profession students to the generic principles of leadership and management for effective and efficient functioning in the health care arena.

HSC 3701L Leadership and Management in Health Sciences Professions Lab (1). This course is designed to be consistent with the lecture material yet provide the opportunity for each HS profession to learn profession specific leadership and management requirements.

HSC 4553 Fundamentals of Pathology (3). Study of human diseases/disorders of the immune, cardiovascular, hematopoietic, central nervous, musculoskeletal, respiratory, urinary/reproductive, gastrointestinal and endocrine systems. Prerequisite: BSC 1010, CHM 1045, HSC 3549 or PCB 3098.

HSC 4905 Health Independent Study (3). Faculty supervised project in health-related topics in association with the student’s special interests.

HSC 4910 Introduction to Research Methods in the Health Sciences (2). Introduces the student to the research process in an inter-disciplinary, multi-disciplinary health sciences environment. Prerequisite: STA 2122, CGS 2060, and BSC 1010.

HSC 4910L Introduction to Research Methods in Health Sciences Lab (1). The course is designed to be consistent with the lecture material while at the same time providing each professional group the opportunity to learn to
develop their specific professional materials for presentation. Prerequisite: BSC 1010, STA 2122, and CGS 2060; Corequisite: HSC 4910.

IHS 4111 Values, Ethics, and Conflict Resolution in Health and Urban Affairs (3). Explores individual and organizational values, related values, related theories, ethical systems and their influence on behavior of individuals in government agencies, law enforcement and health care professions.

Bachelor of Science in Health Sciences

The School of Health offers a Bachelor of Science in Health Sciences (BSHS) degree which capitalizes on national trends in health care. The general BS in Health Sciences (BSHS) provides a broad-based curriculum which allows students to pursue a variety of career choices in the health care industry. The interdisciplinary curriculum is designed to provide career advancement opportunities for health professionals with associate degrees and prepare students for entry into graduate professional health programs. The BS in Health Sciences-Pre Physical Therapy (BSHS/PT) is a specialized track for students who are intending to apply to the Master of Science in Physical Therapy Program upon completion of their BS degree.

Bachelor of Science in Health Sciences

Health Science Track

This program is specifically designed for graduates with Associate of Science degrees in fields such radiography, respiratory care, emergency medical services, dental hygiene, and others who want to build upon their clinical education and complete a BS degree in as little as two years.

In addition, students interested in health care professions that require a masters degree for entry level such as Public Health or Speech Language Pathology can complete the BSHS while simultaneously fulfilling some of the prerequisites for the profession of their choice.

Whether the goal is career advancement, graduate study, enhanced performance in a current position, or simply the acquisition of new knowledge and skills, the BS in Health Sciences degree provides a unique opportunity for students to explore health care from an interdisciplinary approach.

Students pursuing the BSHS are required to complete a Health Core and a Multidisciplinary Health Core. The Cores are designed to provide an understanding of the interchange and relationships of the health care practitioner with his/her professional environment. The interdisciplinary nature of the curriculum promotes the concept of teamwork in health care by encouraging students to share their experiences and ideas with classmates from different disciplines. In conjunction with the Cores, student may select 12 credits to meet their career objectives.

Degree Program Hours: 120

Lower Division Requirements (60)

Applicants must meet all the lower division requirements for admission to undergraduate programs as established by the State University System of Florida and Florida International University.

Prerequisites (*for approved substitutes)

Human Biology and/or Anatomy with Labs 8*
Chemistry and/or Microbiology with Labs 8*
HUN 2201 Principles of Nutrition 3*
STA 2122 Introduction to Statistics 3*
CGS 2060 Introduction to Microcomputers 3*
HSC 2100 Healthy Lifestyles Through Wellness 3*

Upper Division Requirements (60)

Health Core 18
Multidisciplinary Health Core 24
Concentration/Electives 18
Total Hours 60

Health Core (18):

HSC 3002 Introduction to Health Professions 3
HSC 3531 Medical Terminology 3
HSC 3549 Clinical Physiology for Health Professionals 3
HSC 4553 Fundamentals of Pathology 3
HSC 4910 Introduction to Research Methods 2
HSC 4910L Introduction to Research Methods Lab 1

HSC 3701 Leadership & Management in Health Science Professions 2
HSC 3701L Leadership & Management in Health Science Professions Lab 1

Multidisciplinary Health Core (24)

In conjunction with an advisor, students register for courses to provide a set of core competencies that are central to the effective functioning of all health professionals.

SOW 3801 Self-Awareness and Self-Modification for Practice 3
SOW 4684 Professional Values in the Human Service 3
HSA 4150 People, Power and Politics in Healthcare 3
HSA 4113 Issues and Trends in Healthcare Delivery 3
HSA 4421 Legal Aspects and Legislation in Healthcare 3
SOP 4834 Psychology of Health and Illness 3
SYO 3401 Sociology of Health Behavior 3
REL 3180 Medical and Bioethics 3
Concentration/Electives (18)

Students, with the assistance of an advisor, may choose 18 credit hours in a specific concentration such as speech language pathology, nutrition, health/medical science, education, management OR they may select 18 hours to meet professional goals.

Bachelor of Science in Health Sciences

Pre Physical Therapy Track

The BSHS/PT program is designed for students who ultimately intend to complete the Master of Science in Physical Therapy. The curriculum includes physical therapy prerequisites and upper division courses which provide a solid foundation for successful completion of a graduate physical therapy program. Completion of the BSHS/PT degree does NOT guarantee admission into the Masters in Physical Therapy Program.

Lower Division Requirements (60)

Applicants must meet all the lower division requirements for admission to undergraduate programs as established by the State University System of Florida and Florida International University. The BS in Health Sciences/pre PT program is currently
under revision. Interested applicants should consult our webpage: www.fiu.edu/hs for the most up to date information.

Students seeking admission to the BS in Health Sciences-pre PT Program must have:

1. Completed a minimum of 60 semester credit hours of transferable credits.
2. A minimum GPA of 2.0 based upon a 4.0 scale.
3. Completed the following prerequisite courses: (or approved substitutes)
   - General Chemistry with Labs 8
   - General Biology with Lab 4
   - Physics with Lab 8
   - Human Anatomy 3
   - Human Physiology or Exercise Physiology 3
   - Statistics 3
   - Psychology 3
   - Developmental Psychology 3

**Upper Division Requirements (60)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HSC 3002</td>
<td>Introduction to Health Science Professions</td>
<td>3</td>
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<tr>
<td>HSC 3531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>REL 3180</td>
<td>Medical and Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>SOP 4834</td>
<td>Psychology of Health and Illness</td>
<td>3</td>
</tr>
<tr>
<td>SYO 3401</td>
<td>Sociology of Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 5xxx</td>
<td>Applied Musculoskeletal Systems with Lab</td>
<td>4</td>
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<tr>
<td></td>
<td>Approved Elective</td>
<td>2</td>
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<tr>
<td>PHT 4706</td>
<td>Information and Communication Technology</td>
<td>3</td>
</tr>
<tr>
<td>PHT 4936</td>
<td>Current Topics in Physical Therapy</td>
<td>3</td>
</tr>
<tr>
<td>PHT 5174</td>
<td>Analysis of Movement and Function with Lab</td>
<td>3</td>
</tr>
<tr>
<td>PHT 5180</td>
<td>Musculoskeletal Diagnosis and Management I with Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHT 5523</td>
<td>Dimensions of Professional Practice Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>PHT 5181</td>
<td>Musculoskeletal Diagnosis and Management II with Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHT 5182</td>
<td>Musculoskeletal Diagnosis and Management III with Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHT 5027</td>
<td>Clinical Education Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>
Dietetics and Nutrition

Michele Ciccare, Associate Professor, Chairperson
Mariana Baum, Professor
Jordan Brown, Clinical Assistant Professor
Adriana Campa, Research Assistant Professor
Katharine R. Curry, Professor Emeritus
Victoria Hammer-Castellanos, Assistant Professor, and Director, Didactic Program
Zisa Dixon, Associate Professor, and Director, Coordinated Program
Penelope S. Easton, Professor Emeritus
Evelyn B. Enrione, Associate Professor and Associate Dean
Valerie George, Assistant Professor
Susan P. Himburg, Professor
Fatma Huffman, Professor
Amy Jaffe, Area Instructor, Director Dietetic Internship
Marcia Magnus, Associate Professor
Jorge Monsearte, Clinical Assistant Professor
Dian Weddle, Associate Professor
Nancy S. Wellman, Professor

The Department offers a major leading to a baccalaureate degree in dietetics and nutrition, and courses in nutrition for interested students. The Department offers Master of Science and Doctor of Philosophy degrees in dietetics and nutrition. The undergraduate programs are designed to assist the student to gain basic practitioner knowledge and skills.

Bachelor of Science in Dietetics and Nutrition

Degree Program Hours: 132

Coordinated Program

The Coordinated Program (CP) is currently granted accredited status by the Commission on Accreditation for Dietetics Education of The American Dietetic Association, 216 W Jackson Blvd., Chicago, Illinois 60606-6995, (312) 899-4876. The program combines didactic requirements with supervised practicum experience. Graduates from the CP are eligible to sit for the National Registration Examination for Dietitians.

The student must make formal application to the program by March 1 before Fall admission. This special application form can be obtained from the department. Criteria for admission includes grades in prerequisite course work, work experience and letter of application. Students must enroll in the summer prior to Fall admission. Practicum courses are sequential and require two years to complete. Practicum experiences are available in several hospitals and other health agencies. Students must satisfactorily complete a written comprehensive exam to graduate from the program.

Costs of the program to students in addition to tuition and fees include: providing transportation to practicum sites, lab coats and professional attire, annual laboratory tests at the student health services clinic.

Students must receive a grade of 'C-' or higher in all courses in the department.

Common Prerequisites

Lower Division Preparation

Students desiring to major in general dietetics and nutrition need the following FIU course equivalents in addition to completing the general education requirements:

APB 2170 Introductory Microbiology 3
APB 2170L Introductory Microbiology Lab 1
BSC 1010 General Biology 3
CGS 2060 Introduction to Microcomputers 3
CHM 1045 General Chemistry I 4
CHM 1045L General Chemistry Lab 1
CHM 1046 General Chemistry II 3
CHM 1046L General Chemistry II Lab 1
CHM 2210 Organic Chemistry I 4
CHM 2210L Organic Chemistry I Lab 1
CHM 2211 Organic Chemistry II 3
CHM 2211L Organic Chemistry II Lab 1

or

CHM 2200 may substitute for CHM 2210 and 2211

CHM 2200 Survey of Organic Chemistry 3
CHM 2200L Survey of Organic Chemistry Lab 1
ECO 2013 Principles of Macroeconomics 3
HUN 2201 Principles of Nutrition 3
PSY 2020 Introduction to Psychology 3
MAC 1105 College Algebra 3
SYG 2000 Introduction to Sociology 3

Prerequisites for the Coordinated Program. Didactic students may complete the program.

FIU undergraduates must have met all lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program. Basic computer literacy is expected.

Upper Division Program

Required Courses (72)

Summer Semester: (14)

Junior Year

DIE 3005 Orientation to Dietetics 1
DIE 3434 Nutrition Education 2
DIE 3434L Nutrition Education Lab 1
FOS 3021 Fundamentals of Food 3
FOS 3021L Fundamentals of Food Lab 1
HUN 4240 Nutrition and Biochemistry 3
or
BCH 3033 General Biochemistry 4
PCB 3702 Intermediate Physiology 3
or
HSC 3549 Clinical Physiology for Health Professionals 3

Fall Semester: (15)

DIE 3244 Medical Nutrition Therapy 3
DIE 3244L Medical Nutrition Therapy Lab 1
DIE 3317 Dietetics in Community Health 3
DIE 3355 Dietetics in Community Health Practicum 2
HUN 4241 Advanced Nutrition 3
HUN 4403 Life Cycle Nutrition 3

Spring Semester: (15)

DIE 4246 Clinical Nutrition 3
DIE 4246L Clinical Nutrition Practicum 4
DIE 4435 Nutrition Counseling 3
DIE 4435L Nutrition Counseling Lab 1
FOS 4041 Food Science 3
FOS 4041L Food Science Lab 1

Summer Semester: (6)

DIE 3125 Management of Dietary Systems 3
FSS 3233C Institutional Foodservice Production 3

Senior Year

Fall Semester: (10)

DIE 3175 Dietetic Management Practicum 4
DIE 4365 Dietetic Management of Nutrition Programs 3
DIE 4564 Independent Senior Research in Dietetics 3
Spring Semester: (12)

DIE 4506  Seminar in Dietetics and Nutrition  3
DIE 4536  Advanced Practicum in Dietetics  9
DIE 4963  Comprehensive Dietetic Examination  0

These courses are open only to students in the Coordinated Program, must be taken concurrently with the related didactic courses, and must be taken in the order listed. Clinical experiences are supervised by the course instructors and are located in hospitals, health agencies, and school food service programs.

Bachelor of Science in Dietetics and Nutrition

Degree Program Hour: 120

Didactic Program

The Didactic Program in Dietetics is currently granted approval status by the Commission on Accreditation-Approval for Dietetics Education of The American Dietetic Association, 216 W Jackson Blvd., Chicago, Illinois 60606-6995, (312) 899-4876. Upon completion of this program, students may apply to an accredited dietetic internship program or an approved Preprofessional Practice Program to obtain the supervised practice experience required to become eligible to sit for the National Registration Examination for Dietitians.

To be admitted into the program, undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Students must receive a grade of 'C-' or higher in all courses in the department.

General Emphasis

Upper Division Program

Required Courses (60)

BCH 3033  General Biochemistry  4
or
HUN 4240  Nutrition and Biochemistry  3
DIE 3005  Orientation to Dietetics  1
DIE 3125  Management of Dietary Systems  3
DIE 3244  Medical Nutrition Therapy  3
DIE 3244L  Medical Nutrition Therapy Lab  1
DIE 3317  Dietetics in Community Health  3
DIE 3434  Nutrition Education  2
DIE 3434L  Nutrition Education Lab  1
DIE 4246  Clinical Nutrition  3
DIE 4246L  Clinical Nutrition Lab  2
DIE 4365  Management of Nutrition Programs  3
DIE 4377  Applied Dietetic Management of Nutrition Programs  2
DIE 4435  Nutrition Counseling  3
DIE 4435L  Nutrition Counseling Lab  1
DIE 4506  Senior Seminar  3
DIE 4564  Independent Senior Research in Dietetics  3
DIE 4963  Comprehensive Dietetic Examination  0
FOS 3021  Fundamentals of Food  3
FOS 3021L  Fundamentals of Food Lab  1
PCB 3702  Intermediate Physiology  3
or
HSC 3549  Clinical Physiology for Health Professionals  3
FOS 4041  Food Science  3
FOS 4041L  Food Science Lab  1
FSS 3233C  Institutional Food Service Production  3
HUN 3191  World Nutrition  3
HUN 4241  Advanced Nutrition  3
HUN 4403  Life Cycle Nutrition  3

1Not required for students enrolled in the Coordinated Program in Dietetics. These students enroll in practicum courses in lieu of this course.

Recommended Electives

Selected courses in: computer science, education, statistics, social work, health science, adult education, business, anthropology, sociology.

Minor in Nutrition

A twelve-credit nutrition course sequence at the undergraduate level affords students the opportunity to study food and nutrients, their physiological functions, normal nutritional requirements, socioeconomic influences on food choices and other aspects of food technology. The required science foundation courses provide the necessary background of chemistry and biological sciences to understand the physiological and biochemical basis of nutrition, as a multi-disciplinary science with relevance to health. Students minoring in nutrition learn to interpret nutrition research and contemporary claims and theories as a basis for improving food habits. Students interested in entering health professional fields of physical or occupational therapy, schools of medicine, dentistry or veterinary medicine find the nutrition minor relevant to their future careers because of diet and health relationships.

This nutrition minor will not meet licensure requirements for qualifications as a nutritionist in the State of Florida. A license is required to provide nutritional counseling to individuals.

Minor Requirements

HUN 2201  Principles of Nutrition  3
HUN 4241  Advanced Nutrition  3
HUN 4403  Life Cycle Nutrition  3

1Prerequisite: Human Physiology, Organic Chemistry; Corequisite: Biochemistry

In addition, one of the following courses:

HUN 3191  World Nutrition  3
FOS 3021  Fundamentals of Food  3
and
FOS 3021L  Fundamentals of Food Lab  1
FOS 3004  Food and the Consumer  3
FOS 4041  Food Science  3
and
FOS 4041L  Food Science Lab  1

1Prerequisite: FOS 3021, FOS 3021L, and HUN 2201

Note: The following science courses are required to fulfill the prerequisites in the nutrition minor:

CHM 1045  General Chemistry I
CHM 1046  General Chemistry II
CHM 2210  Organic Chemistry I
CHM 2211  Organic Chemistry II or CHM 2200 for CHM 2210 and CHM 2211

CHM 2200  Survey of Organic Chemistry
BCH 3033  General Biochemistry or
HUN 4240  Nutrition and Biochemistry
PCB 3702  Intermediate Physiology or
PCB 3703, 3704 Human Physiology I, II or
HSC 3549  Clinical Physiology for Health Professionals

Course Descriptions

Definition of Prefixes

DIE-Dietetics; FOS-Food Science; FSS-Food Service Systems; HUN-Human Nutrition

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

DIE 3005 Orientation to Dietetics (I). Survey of role and responsibilities of the dietitian. Legal and ethical considerations necessary for the student
dietitian in clinical experiences. Educational and personal qualifications for specialization in dinetics. Prerequisite: HUN 2201. (SS)

DIE 3125 Management of Dietary Systems (3). Survey of various types of institutional food service systems; management concepts in planning, implementing, and evaluating food service systems. Prerequisites: Basic Management, Quantity Food Preparation. (SS)

DIE 3175 Dietetic Management Practicum (4). Developing skills for DIE 3125 and DIE 4365. Clinical assignments in several food service institutions in this area. Clinical component: open only to students in the Coordinated Program. Prerequisite: DIE 3355 and DIE 4277. (F)

DIE 3244 Medical Nutrition Therapy (3). Techniques of assessing nutritional status and adjusting nutrient/energy intake to accommodate medical treatment. Corequisite: DIE 3244L. Prerequisite: HUN 2201. (F)

DIE 3244L Medical Nutrition Therapy Lab (1). Application of nutritional assessment and dietary prescriptions to accommodate medical treatment. Corequisite: DIE 3244. (F)

DIE 3317 Dietetics in Community Health (3). Study of community agencies providing nutrition guidance for differing age groups. Emphasis on influencing nutrition and health care policy. Prerequisites: HUN 2201, DIE 3005. Prerequisite or Corequisite: HUN 4403. (F)

DIE 3355 Dietetics in Community Health Practicum (2). Observation and participation in activities of community agencies. Nutrition education and counseling experiences. Clinical component: Open only to students in the Coordinated Program. Corequisite: DIE 3317. (F)

DIE 3434 Nutrition Education (2). Planning for groups/individual basic nutrition and clinical nutrition education, and working with the instructional media. Prerequisite: Basic nutrition. Corequisites: Nutrition Education Lab. (SS)

DIE 3434L Nutrition Education Laboratory (1). Students plan and practice various forms of nutrition education individual, groups and instructional media. (SS)

DIE 4195 Special Problems in Dietetic Administration (1-3). In-depth study of a problem in dietetic administration chosen to coincide with a student's interest and career goals. Student will develop objectives stated in behavioral terms and demonstrate skills in information gathering, analysis, and technical writing. Prerequisite: Permission of the instructor.

DIE 4246 Clinical Nutrition (3). Study of the complex dietetic problems accompanying metabolic disorders. Determination of nutrient requirements based on pathophysiological conditions. Prerequisite: DIE 3244. (S)

DIE 4246L Clinical Nutrition Laboratory (2). Application of nutrient requirements for the treatment of complex pathophysiological conditions. Prerequisites: DIE 3244 and DIE 3244L. Corequisite: DIE 4246. (S)

DIE 4277 Clinical Nutrition Practicum (4). Participation in activities in clinical affiliations focusing on nutritional assessment, planning, treatment and follow-up of patients. Clinical component: open only to students in the Coordinated Program. Corequisite: DIE 4246; Prerequisite: DIE 3355. (S)

DIE 4296 Special Problems in General Dietetics (1-3). In-depth study of a problem chosen to coincide with student's interest and career goals. Student develops behavioral objectives and demonstrates skills in information gathering, analysis and technical writing. Prerequisite: Permission of the instructor. (F,S,SS)

DIE 4363 Dietetic Management of Nutrition Programs (3). Advanced concepts of managerial functions as an institutional consultant, a member of a community nutrition program, a private therapeutic consultant, full time institutional food service administrator. Advanced standing required. Prerequisites: DIE 3125 or permission of the instructor, basic competency in management principles. (F)

DIE 4377 Applied Dietetic Management of Nutrition Programs (2). Observation and participation in community agencies, institutions, and simulated setting the development of entry level competencies in the management of nutrition and food service programs. Corequisite: DIE 4365. (F)

DIE 4435 Nutrition Counseling and Communication Skills (3). Nutrition counseling methods and communication skills for development of entry level competencies. Advanced standing in dietetics required. Prerequisite: DIE 3244, DIE 4246, DIE 4246L or DIE 4277. Corequisite: DIE 4435L.

DIE 4435L Nutrition Counseling and Communication Skills Lab (1). Small group video recorded practice in instruction counseling communication skills. Prerequisite: Advanced standing in dietetics. Corequisite: DIE 4435. (S)

DIE 4506 Seminar in Dietetics and Nutrition (3). Professional skills development for career effectiveness in today's job world; emphasis on speaking and writing related to contemporary nutrition issues. Majors only, senior standing. (F,S)

DIE 4536 Advanced Practicum in Dietetics (9). In-depth study combining theoretical concepts and clinical experience. Learning experience planned cooperatively by the student, campus instructor, and clinical instructor to meet student needs and goals. Prerequisites: DIE 4246, DIE 4277, and permission of Director of the Coordinated Program. Clinical component: Open only to students in the Coordinated Program. (S)

DIE 4537 Specialized Dietetic Practicum (3). Practice in a specialized area such as Pediatrics, Diabetes, etc. Prerequisites: Nutrition II, and Clinical Nutrition. (SS)

DIE 4564 Independent Senior Research in Dietetics (3). Research methodology for planning, conducting and analyzing a study in applied dietetics. Students will design a protocol, collect data, analyze and present results/conclusions. (F)

DIE 4963 Comprehensive Dietetic Examination (0). A comprehensive examination of the dietetics and nutrition curriculum. Prerequisite: Senior standing. (F,S)

FOS 3004 Food and the Consumer (3). Study of purchasing, storage, and preparation of food. Consideration of life style influences on food choices. Designed to develop skills in purchasing and preparing foods to meet personal, social, and physical needs. Demonstration laboratory included.

FOS 3021 Fundamentals of Food (3). Study of selection, processing, and
preparation of food with attention to quality and nutrient retention. Corequisite: FOS 3021L (F,SS)

FOS 3021L Fundamentals of Food Laboratory (1). Techniques of food preparation to maintain nutrients and food quality. Corequisite: FOS 3021. (F,SS)

FOS 4041 Food Science (3). Physical and chemical changes in food occurring as a result of various methods of processing, preparation, and storage. Prerequisites: Organic Chemistry, HUN 3122 or HUN 2201, FOS 3021, or equivalents. Corequisite: FOS 4041L. (S)

FOS 4041L Food Science Laboratory (1). Experimental laboratory in the physical and chemical characteristics of food. Corequisite: FOS 4041. (S)

FSS 3316 Food Science For Institutions (3). Proper food handling in institutional settings with use of sound management principles closely coordinated with food science advances and government regulations. Laboratory and field trips to strengthen theoretical concepts. Prerequisite: FOS 3021.

HUN 2201 Principles of Nutrition (3). Nutrients and their inter-relationships, requirements of individuals, and food sources. Investigates current controversies, fads/fallacies, and health related issues. Recommended for non-majors. (F, S, SS)


HUN 3122 Nutrition and Culture (3). Study of the scientific principles of nutrition and impact of culture on nutrition and health. Recommended for Junior-Senior non-majors. (F, S, SS)

HUN 3191 World Nutrition (3). Exploration of food production, distribution, and consumption patterns of selected nations. Analysis of variables affecting nutritional intake and change, and hunger. (F, S, SS)

HUN 3294 Women's Nutrition Issues (3). Focus is on women, health and nutrition. Covers nutrition throughout women's life cycle, principles of absorption, digestion, metabolism, food composition, local to international issues. New labeling laws, current nutrition research. (F)

HUN 3414 Nutrition for the Athlete (3). Exploration of nutrition in the enhancement of health and athletic performance. Nutrition claims targeted to the exercising population will be evaluated. Prerequisite: HUN 2201.

HUN 4240 Nutrition and Biochemistry (3). Study of the relationship of nutrition and biochemistry with emphasis on digestion, absorption, metabolism of nutrients, and determination of norms. Prerequisite: Organic Chemistry concurrent or prerequisite and Junior standing. (F, SS)

HUN 4241 Advanced Nutrition (3). Roles of nutrients in metabolic processes. Effects of excesses and deficiencies. Prerequisites: Organic Chemistry, Physiology, and HUN 2201 or equivalent. BCH 3033 pre or corequisite. (F)

HUN 4403 Life Cycle Nutrition (3). Nutrient requirements, dietary adequacy, food habits, special nutritional concerns during pregnancy, infancy, childhood, adolescence, and adulthood including aging. Prerequisite: HUN 2201 or HUN 3122. (F, S)
Health Information Management

Sandra McDonald, RHIA, MHSA
Chair

The major in Health Information Management prepares the student for the variety of responsibilities and functions involved in the management of a health information department. Health Information Managers design and supervise systems relating to the collection, analysis, retention, retrieval and evaluation of health information. The priorities of the position include maintaining complete, accurate and timely medical records, assisting other members of the health care team in their information-related needs, and developing and implementing policies, procedures and systems which adhere to ethical, financial, and legal requirements and meet the accreditation standards established for the health care facility.

The Health Information Management Program is accredited by the Commission on the Accreditation of Allied Health Educational Programs (CAAHEP) in cooperation with the American Health Information Management Association's Council on Accreditation. Graduates are eligible to take the National Certification Examination and become a credentialed Registered Health Information Administrator (RHIA) upon the successful completion of this exam.

Bachelor of Science in Health Information Management

Degree Program Hours: 120

Prerequisite Courses

Anatomy and Physiology, Statistics, Accounting I and II, and Introduction to Microcomputers are prerequisites to enroll in certain courses of the required curriculum. All prerequisites should be completed with a passing grade of at least a 'C'.

To qualify for admission to the program, applicants must have met all the lower division requirements including CLAST, completed 60 transferable semester hours with a minimum 2.0 cumulative GPA, and must be otherwise acceptable into the program.

Upper Division Program

Required Courses: (60)

<table>
<thead>
<tr>
<th>Semester I (13)</th>
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</thead>
<tbody>
<tr>
<td>HSC 3531 Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3116 Introduction to HIM Profession</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3226 Basic ICD-9-CM Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3437 Fundamentals of Medical Science</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3806 Directed Practice I</td>
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</table>

<table>
<thead>
<tr>
<th>Semester II (13)</th>
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<tbody>
<tr>
<td>HSA 4421 Legal Aspects and Legislation in Health Care</td>
<td>3</td>
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<tr>
<td>HIM 3236 Advanced ICD-9-CM Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3626 Research Methods in Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3438 Fundamentals of Medical Science II</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3816 Directed Practice II</td>
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<table>
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<tr>
<th>Semester III (9)</th>
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<tbody>
<tr>
<td>HIM 3306 Introduction to Management in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4256 CPT-4 Coding and Reimbursement Issues</td>
<td>3</td>
</tr>
<tr>
<td>HSA 4192 Health Management and Systems Engineering</td>
<td>3</td>
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</tbody>
</table>

<table>
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<tr>
<th>Semester IV (13)</th>
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<tbody>
<tr>
<td>HSA 4170 Health Care Finance and Accounting Management</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3655 Communication Skills for Health Care Professionals</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4344 HIM Departmental Systems</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4506 Clinical Quality Assessment and Improvement</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4837 Directed Practice III</td>
<td>1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester V (12)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM 4656 Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4676 Problem-Solving Skills in Health Information Management</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4400 Multi-Institutional Health Information</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4838 Internship in Health Information Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Must earn a minimum grade of 'C' (2.0) in each course. Courses with a grade of 'C-' or below must be repeated.

Course Descriptions

Definition of Prefix

HIM-Health Information Management;
HSA - Health Services Administration;
HSC - Health Science Concentration.

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

HIM 3116 Introduction to HIM Profession (3). Introduces the student to the historical development of health information management and focuses on the work and responsibilities of health information professionals and their relationship with other health care providers. The student will acquire a full understanding of the medical record, including its development, purpose, content, format analysis, value and uses along with the methods used to file and track records. (F)

HIM 3226 Basic ICD-9-CM Coding (3). Concepts and principles of nomenclatures and classification systems used to record and compare health data. Development of ICD-9-CM coding skills and applications for research. Prerequisites: Human anatomy and physiology and medical terminology. (F)

HIM 3236 Advanced ICD-9-CM Coding Procedures (3). Introduction to coding as it relates to DRG system. Record analysis and data quality addressed. CPT, DSM III and current coding issues and regulations presented and discussed. Encoder experience included.

HIM 3306 Introduction to Management in Health Care (3). General principles of management of a health information system in any type of health care facility, including hospitals, intermediate and long term care facilities, clinics, HMO’s etc. The basic concepts of management as related to the health care industry are addressed. (SS)

HIM 3437 Fundamentals of Medical Science I (3). Beginning with the cell and progressing through the various organ systems, the conceptual patterns of disease are explored and defined by etiology and the immune and repair responses generated by the body. The diagnostic and treatment modalities for each are studied and identified in the medical record for correlation with coding procedures. Prerequisites: Human Anatomy and Physiology. (F)
HIM 3438 Fundamentals of Medical Science II (3). A review of body systems to explore the various disease processes and pathological conditions which affect the organs involved. Includes detailed explanations of how the diagnostic work-ups are recorded in the medical record and how to recognize and interpret the significant findings and make intelligent coding decisions. Prerequisites: Human anatomy and physiology. (S)

HIM 3626 Research Methods in Health Information Management (3). This course is designed to introduce students to research concepts and tools. Emphasis is placed on research design and data collection, and analysis techniques. Discussion of basic health statistics. Prerequisites: Introduction to Health Information Management, Introduction to Management, Statistics. (S)

HIM 3655 Communication Skills for Health Care Professional (3). This course provides an understanding of the process of formal communication for the health care profession. It offers an overview of communication techniques leading to sound decision making and effective team work. It prepares students to formulate and present ideas clearly and persuasively. Prerequisites: Intro to Management, Intro to HIM profession, DPI. (F)

HIM 3806 Directed Practice I (1). Orientation of the student to the hospital health information department and adjacent diagnostic or therapeutic units; including the outpatient department, emergency room, admitting office, x-ray, pharmacy, physical therapy, laboratory, and pathology department. Corequisite: HIM 3116 (F)

HIM 3816 Directed Practice II (1). Orientation of the student to health information department functions. Rotation of the student through technical functions of the department, following the flow of the patient's record after discharge. Includes the discharge procedure, analysis, coding and indexing systems; statistical reporting; correspondence; control of the incomplete medical record; and processing of the completed record. Prerequisites: Directed Practice I, Basic ICD-9-CM Coding, Introduction to Management. Corequisite: HIM 3236 (S)

HIM 4256 CPT-4 Coding and Reimbursement Issues (3). CPT-4/HCPCS coding practices, data collection and outpatient reimbursement issues will be presented and discussed. Prerequisites: Anatomy, Physiology, Medical Terminology, Basic and Advanced ICD-9CM Coding. (SS)

HIM 4344 HIM Departmental Systems (3). Application of management principles to health information systems, including: development of manuals, job descriptions, interviewing and evaluation techniques, forms design, environmental planning etc. External activities assigned. Prerequisites: Introduction to HIM Profession and Introduction to Management, DPI. (F)

HIM 4400 Multi-Institutional Health Information (3). Standards and procedures for long-term, ambulatory care, home health, rehabilitation, psychiatric, dental, hospice, and other health care services are investigated and compared. Prerequisites: Introduction to HIM Profession, Research Methods, Introduction to Management, Quality Assessment. (S)

HIM 4506 Clinical Quality Assessment and Improvement (3). Course is designed to introduce student to quality management techniques. It includes areas of UR, RM, QA, and PI. Role of computers in QA/QI is explored. Prerequisites: Introduction to HIM Profession, Introduction to Management, DPI, DPII, Research Methods. (F)

HIM 4656 Health Information Systems (3). Development of health information systems and applications for evaluation and management of a health information department. Emphasis is on computerization and "hands-on" experience. Prerequisite: Introduction to HIM Profession, Intro to Micro Computers, DPI, DPII, Communication Skills. (S)

HIM 4676 Problem-Solving Skills in Health Information Management (3). Through illustrative case reports, group discussions, role playing, oral reports, lectures, buzz sessions, and review of the literature; students explore effective methods for identifying and arriving at satisfactory solutions to specific types of problems they may expect to encounter in the administration of health information services. Prerequisites: HIM 4506, HIM 4837, HIM 4256. (S)

HIM 4837 Directed Practice III (1). Experience in quality improvement, risk management, and utilization review areas. Clinical experience in acute care and non-acute care facilities. Prerequisite: Directed Practice I, Directed Practice II, Quality Assessment and Improvement, HIM Department Systems. (F)

HIM 4838 Internship in Health Information Management (3). Management experience in a health information department under the supervision of a credentialed Health Information Professional. Emphasis on administrative and medical staff relationships. Prerequisites: DPI, DPII, DPIII. (S)

HIM 4905 Directed Independent Study (1-3). Individual conferences, assigned readings, and reports on investigations related to the Health Information Management profession. (F,S,SS)

HIM 4932 Special Topics (3). Designed to address topics not otherwise offered in the curriculum but specific to or required for health information management. Topics to be announced yearly. (F,S,SS)

HSC 3531 Medical Terminology (3). Provides the student with basic medical language skills including, pronunciation, spelling, and definitions as a foundation for developing the degree of competency required to read and understand medical reports and communicate with physicians and other medical professionals. Prerequisites: Human Anatomy and Physiology. (F,S)
Occupational Therapy

Susan Kaplan, Chairperson, Associate Professor
Alma Abdel-Moty, Clinical Assistant Professor and Undergraduate Coordinator
Lori Andersen, Visiting Clinical, Assistant Professor
Elise Bloch, Clinical Assistant Professor
Suzanne D’Agati, Assistant Professor
Gail Ann Hills, Professor
Ann Marie Knecht, Clinical Assistant Professor and Clinical Coordinator
Carol Lambdin, Visiting Clinical Assistant Professor
Patricia Scott, Associate Professor
Pamela Shaffner, Clinical Associate Professor

Occupational therapy is a health profession concerned with promoting the quality of life of individuals. Therapeutic techniques are directed toward restoration, reinforcement and enhancement of participation in life task activities. Occupational therapy may be indicated for persons whose life has been interrupted by disease or injury, or those who suffer from developmental delays or problems associated with aging.

The occupational therapist assesses the individual’s abilities to carry out tasks and activities necessary for productive living. Working collaboratively with the client and considering his/her personal goals, lifestyle and environment, the therapist develops an intervention program designed to help restore the greatest possible functional capacity. During the treatment or rehabilitation process, the client actively engages in a directed program of purposeful, meaningful activities designed to increase his or her level of functioning. The occupational therapist works collaboratively with the client, other health professionals on the health care team, and community agency personnel. Occupational therapists serve a wide variety of individuals in all age ranges and work in settings such as community agencies, sheltered workshops, hospitals, schools, extended care facilities, and rehabilitation centers. There is an increasing demand for occupational therapists and excellent opportunities exist for career advancement.

Qualities that are necessary to be a successful therapist include the ability to work with others, look at the totality of human performance, think creatively, problem solve, and direct the actions of others.

Bachelor of Science in Occupational Therapy

Degree Program Hours: 128

In order to be admitted to the program in occupational therapy, applicants must: a.) meet the requirements for admission to the University; b.) have a cumulative GPA of 2.8 or higher and c.) have completed required prerequisites and 60 semester hours of acceptable academic credit. Applicants must apply to both the Office of Admissions and the Department of Occupational Therapy. Applicants who are already registered at FIU as degree students must mail an application to the Occupational Therapy Department after December 1, but must be postmarked no later than January 15th. Enrollment is limited and one class is selected each academic year to begin Fall semester. The average admitting grade point for admission is over 3.3. Students are selected based on GPA and the strength of their academic record, including a strong liberal arts preparation and the required prerequisites.

Students who already hold a bachelor’s degree in a field other than occupational therapy may be eligible for the master’s degree program (see graduate catalog).

For updated information regarding application, students can visit our web page at www.fiu.edu/~otweb. Students can download the OT application but cannot apply electronically.

Advising

The admission line (305) 348-2263 was developed to answer many of the most commonly asked questions. All applicants should first call this number and listen to the message.

Group advising sessions are held every two weeks in the O.T. department. Call (305) 348-2922 to find out the dates, and to reserve a space. If you have specific questions related to your application, the advisor will answer them during the session.

All applicants who live in Miami-Fort Lauderdale area are expected to attend an advising session. Students who live outside the area can call the department and ask to speak with an advisor.

Accreditation Status

The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, Md 20824-1220. AOTA’s phone number is (301) 652-AOTA or (800) 377-8555 (TDD). Graduates of the program will be able to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT).

After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice. Your eligibility for state licensure or certification may be at risk if you have been convicted or found guilty, regardless of adjudication, of a crime in any jurisdiction which directly relates to the practice of occupational therapy or to the ability to practice occupational therapy. A plea of nolo contendere shall be considered a conviction for the purposes of this part.

Lower Division Preparation

Required Courses

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>Physics and Lab or Chemistry and Lab (only one required)</td>
<td>4</td>
</tr>
<tr>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>One additional Psychology course (not personal adjustment)</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Sociology or Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Physiology (3 credits)</td>
<td>3</td>
</tr>
<tr>
<td>Human Anatomy and Physiology I and II</td>
<td>6</td>
</tr>
</tbody>
</table>

1 Students who have completed Anatomy/Physiology I and II with a lab have met the prerequisites for Biology with lab and Physiology.

To be admitted into the program, FIU undergraduates must have met all the lower division requirements including CLAST, and completed 60 semester hours.

Upper Division Program

All courses in the upper division are required including fieldwork. Fieldwork does not follow the traditional academic calendar and may extend beyond the semester’s end. Level II fieldwork must be completed within 24 months of the didactic course work.

Required Courses

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>OTH 3000 Foundations of Occupational Therapy</td>
<td>3</td>
</tr>
<tr>
<td>OTH 3210 Occupational Development Throughout the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>OTH 3122 Therapeutic Skills in OT I</td>
<td>1</td>
</tr>
</tbody>
</table>
Fall Semester: (5 credits)
OTH 4850 or OTH 4851
Fieldwork Experience
Level II 5

Course Descriptions
Definition of Prefixes
OTH-Occupational Therapy, Majors
Only
F-Fall semester offering; S-Spring
semester offering; SS-Summer
semester offering.

OTH 3000 Foundations of
Occupational Therapy (3). History
and theory of occupational therapy,
including scope of practice and
introduction to clinical reasoning. (F)

OTH 3122 Therapeutic Skills in
Occupational Therapy I (1). Presents
the use of self and the use of
occupation as therapeutic mediums.
Communication skills and skills in
analyzing, adapting, and grading
activities are emphasized. (F)

OTH 3122L Therapeutic Skills in
Occupational Therapy I Lab (2). Lab
experiences enable practice of skills in
therapeutic communication, activity
analysis and adaptation, and beginning
process group. (F)

OTH 3210 Occupational
Development Throughout the
Lifespan I (3). Investigates how
humans shape and are shaped by their
activities and environment. Examines
normal occupational development in
infants, children and adolescents.
Prerequisite: DEP 3000 or equivalent.
(F)

OTH 3216C Occupational
Development Throughout the
Lifespan II (3). Examines normal
occupational development I young,
middle-aged and older adults. Analysis
of occupations and personal and
environmental factors that influences
occupational competence. Prerequisite:
DEP 3000 or equivalent. (S)

OTH 3413 Applied Kinesiology (3).
A study of the anatomical,
physiological and biomechanical
principles of human motion with an
emphasis on clinical application. (S)

OTH 3413L Applied Kinesiology
Lab (2). Laboratory to accompany
OTH 3413 (S)

OTH 3416 Mechanisms of Disease
and Dysfunction (3). A study of
mechanisms of disease and
pathophysiological processes that occur
in the human body. State of the art
diagnostic techniques, medical
advances, and methods of disease
prevention are discussed. Prerequisite:
ZOO 3731 and laboratory, PCB 3702,
or equivalent. (S)

OTH 3760 Evaluation and Research
in Occupational Therapy I (2).
Introduces concepts of evaluation and
testing in occupational testing in
occupational therapy and develops
skills necessary to be a research
customer. (F)

OTH 3815 Field Work Experience
Level I (2). Pre-clinical experience in
an approved training center. (SS)

OTH 4109 Technological
Applications in Occupational
Therapy (1). Overview of
technological applications in clinical
practice with emphasis on adaptations
for the physically disabled client.

OTH 4109L Technological
Applications in Occupational
Therapy Lab (1). Laboratory
experience with various technological
applications used in occupational
therapy practice.

OTH 4123 Therapeutic Skills in
Occupational Therapy II (1). Studies
the use of self and group activities to
evaluate and treat individuals with
psychiatric disorder or other functional
limitations. (F)

OTH 4123L Therapeutic Skills in
Occupational Therapy II Lab (2).
Application and practice of therapeutic
communication, activity analysis and
adaptation, and group process skills
through role-playing and simulated
treatment situations. (F)

OTH 4322 Neuropsychiatric and
Cognitive Approaches in
Occupational Therapy I (2). Students
development proficiency in OT
evaluation and treatment techniques for
individuals with cognitive and
neuropsychiatric disorder. Selected
disorders are studied. (F)

OTH 4323 Neuropsychiatric and
Cognitive Approaches in
Occupational Therapy II (3).
Students develop proficiency in OT
evaluation and treatment techniques for
individuals with cognitive and
neuropsychiatric disorder. Selected
disorders are studied. (S)

OTH 4323L Neuropsychiatric and
Cognitive Approaches in
Occupational Therapy II Lab (1).
Taken concurrently with OTH 4323,
students will develop proficiency in
administration of assessments and translation of findings in treatment. Prerequisite: OTH 4322.

OTH 4423 Biomechanical and Rehabilitative Approaches in Occupational therapy I (2). Studies the application of Biomechanical and rehabilitative approaches to selected physical disabilities. Case studies present specific evaluation and treatment techniques. Prerequisite: OTH 3413. (F)

OTH 4423L Biomechanical and Rehabilitative Approaches in Occupational Therapy I Lab (1). Lab experiences allow students to practice Biomechanical and rehabilitative evaluation and treatment strategies in simulated treatment situations. Prerequisite: OTH 3413L. (F)

OTH 4424 Biomechanical and Rehabilitative Approaches in Occupational Therapy II (2). Continued study of the application of biomechanical and rehabilitative approaches to selected physical disabilities. Case studies present specific evaluation and treatment techniques. (S)

OTH 4424L Biomechanical and Rehabilitative Approaches in Occupational Therapy II Lab (1). Provides students with practical experiences in evaluation and treatment techniques for selected physical disabilities. (S)

OTH 4426 Neuromotor Approaches in Occupational Therapy II (3). Foundational knowledge of OT evaluation and treatment of neurologically impaired adults. Prerequisite: OTH 4423 and OTH 4423L. (S)

OTH 4426L Neuromotor Approaches in Occupational Therapy II Lab (1). Applications of theoretical knowledge to clinical problems in the occupational therapy evaluation and treatment of neurologically impaired adults. (S)

OTH 4504 Neuromotor Approaches in Occupational Therapy (3). Provides theoretical basis for treatment of children with neuromotor disorders. Develops evaluation and treatment planning skill through extensive pediatric casework.

OTH 4504L Neuromotor Approaches in Occupational Therapy I Lab (1). Application of theoretical knowledge to clinical problems in the occupational therapy evaluation and treatment of children with neuromotor disorders. Prerequisites: Neuroscience (ZOO 4743 or equivalent), Occupational Development Across the Lifespan I (OTH 3210). Corequisite: Neuromotor Approaches to Occupational Therapy I.

OTH 4701 Professional Issues in Occupational Therapy (2). Study of professional issues in OT in relation to administration such as roles, functions, licensing, certification, documentation, ADA. (S)

OTH 4775 Evaluation and Research in Occupational Therapy (2). Presents research concepts and strategies. Emphasis on evaluation and research activities that can be conducted in clinical settings and are relevant to clinical practice. Prerequisite: STA 3122 and evaluation and research in OT I. (S)

OTH 4850 Field Work Experience (5-12). Three months internship in a clinical setting. (F,S,SS)

OTH 4851 Field Work Experience (5-12). Three months internship in a clinical setting. (F,S,SS)

OTH 4852 Field Work Experience (1-20). Internship in a specialized treatment area. (F,S,SS)

OTH 4904 Independent Study (VAR). To be arranged with instructor according to the student’s specialty. (F,S,SS)
Physical Therapy

Helen Z. Cornely, Assistant Professor
Steven Bernstein, Clinical Assistant Professor
Leonard Elbaum, Associate Professor and Chairperson
Lori Gusman, Clinical Assistant Professor & Academic Clinical Coordinator
Awilda R. Haskins, Associate Professor
Steve Janos, Visiting Clinical Assistant Professor
Joyce Maring, Clinical Assistant Professor
Lisa Roberts, Visiting Clinical Assistant Professor
Colleen Rose St. Prix, Associate Professor
Neva Sanchez, Assistant Professor

About The Department
The Department of Physical Therapy is part of the School of Health, which in turn is part of the College of Health and Urban Affairs.

The mission of the Physical Therapy Department is to meet the physical therapy needs of the local, state, national, and international community by:

- providing entry-level and post-professional physical therapy education,
- advancing the knowledge base of physical therapy,
- and by developing innovative model physical therapy service programs.

Our entry-level curriculum is accredited by the Commission on Accreditation of Physical Therapy Education (CAPTE), and has been since its inception in 1975, allowing graduates of the program to apply for licensure as Physical Therapists throughout the United States. CAPTE has recently discontinued its accreditation of Bachelor's Degree programs, and as a result, the Department no longer offers a Bachelor of Science in Physical Therapy.

Students interested in Physical Therapy as a career should consider the Bachelor of Science-Health Sciences, which has a Physical Therapy Track.

The program is open to any fully admitted undergraduate student at FIU. No application to the department is necessary. However, completion of the program does not guarantee acceptance into the graduate, entry-level (Professional Preparation) program in Physical Therapy.

Please refer to the School of Health Sciences section of the catalog for further information.
School of Nursing

Porter, Luz, Ph.D., RN-CS, ARNP
Professor, Nursing

Richardson, Charlotte, Ph.D., RN
Visiting Assistant Professor, Nursing

Youngblut, Jo-Anne, Ph.D., RN,
FAAN Professor, Nursing

The School of Nursing offers a professional program of study leading to the degree of Bachelor of Science in Nursing (BSN).

The School is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, New York 10006 (212-363-5555, ext. 153) and is approved by the Florida State Board of Nursing. It is open to generic and RN students. Upon graduation, generic students are eligible to write the NCLEX-RN examination to become registered nurses.

The School also offers a Master of Science degree in Nursing, as well as selected continuing education courses.

Program Objectives

Upon completion of the BSN, graduates will be able to:

1. Synthesize scientific knowledge from nursing and related disciplines in the provision of care to clients within the health-illness continuum throughout the life span.

2. Analyze research findings from nursing and from other disciplines to improve or change nursing practice.

3. Analyze nursing theories and concepts from other disciplines as a base for nursing practice.

4. Pro-act to legal, social, political, and economic forces and ethical considerations which impact on the role of the professional nurse and on clients.

5. Collaborate with members of the health care team in the delivery of individualized, economic and ethical health care services with accountability and responsibility for own practice.

6. Utilize creative leadership to promote quality health care in a rapidly changing multicultural, multiethnic, global environment.

7. Practice critical thinking as a lifelong process through independent pursuit of personal and professional growth.

8. Demonstrate clinical competencies in culturally diverse populations in a variety of clinical settings.

Bachelor of Science in Nursing (BSN) – Generic

Degree Program Hours: 123

Admission Requirements

Applicants to the School of Nursing must submit an Application for Admission to the University and must follow the regular University procedures. Applicant must also complete a School of Nursing application. Applicants must be admitted to the University before admission to the School.

All necessary admission documents must be submitted by April 1 of each year preceding the Fall Term admission or October 15 of each year preceding the Spring Term admission. Students interested in the nursing major should contact the School to make an appointment with the Assistant Director of Admissions and Student Services as early as possible. The School of Nursing is located on the Biscayne Bay Campus, telephone: (305) 919-5915.

To be admitted to the program, applicants must have an overall GPA of 3.0 or higher, with no repeats in science courses, have met all the lower division requirements including CLAST, completed 60 semester hours, and be recommended for admission by the Student Affairs Committee.

The School of Nursing is a limited enrollment program and admission is competitive based on previous academic performance. The Florida Board of Nursing and several state and/or private agencies require the disclosure of conviction records for misdemeanors and/or felonies; therefore, this information will be required at the time of application.

Nursing majors are responsible for transportation expenses related to clinical experiences. They are required to carry health and accident insurance. To safeguard the health of clients, nursing students are required to submit proof of health examination and immunizations upon entry into the nursing program. Students must submit proof of basic cardiopulmonary resuscitation (CPR) certification (American Red Cross) before entering clinical courses in the School of Nursing. This CPR certification should...
cover the period of enrollment in the major.

Common Prerequisites
Mathematics
STA 1222 Introduction to Statistics
PSY 2020 Introduction to Psychology
SYG 2000 Introduction to Sociology

Social Sciences
APB 2170 Microbiology
APB 2170L Microbiology Lab
CHM 1033 Survey of General Chemistry
CHM 1033L Survey of General Chemistry Lab
PCB 2700 Human Physiology
PCB 2700L Human Physiology Lab
ZOO 373I Human Anatomy
ZOO 373IL Human Anatomy Lab

Natural Sciences
APB 2170 Microbiology
APB 2170L Microbiology Lab
CHM 1033 Survey of General Chemistry
CHM 1033L Survey of General Chemistry Lab
PCB 2700 Human Physiology
PCB 2700L Human Physiology Lab
ZOO 373I Human Anatomy
ZOO 373IL Human Anatomy Lab

Other Courses
HUN 2201 Nutrition
DEP 1000 Developmental Psychology

Lower Division Preparation
The following courses are required for admission to the nursing major:
1. English 12
2. College Math 3
3. Statistics 3
4. Natural Sciences:
   Chemistry 5
   Human Anatomy/Physiology 6-8
   Microbiology 4
5. Social Science:
   Introductory Sociology 3
   Introductory Psychology 3
6. Humanities 6
7. Nutrition 3
8. Human Growth and Development 3
9. Language 8-10

Scholastic Requirements
To remain in good academic standing students must:
1. Maintain an overall cumulative GPA of 2.25 or higher.
2. Achieve a grade of 'C' or higher in the science and nursing courses. A student who earns less than a 'C' in any nursing course will be required to repeat the course in order to progress in the nursing program. A student may repeat a course one time only. Students who have failed two nursing courses or have two failures in the same nursing course will be dismissed from the program.
3. Required Examinations: In addition to the University requirements (CLAST), the School also requires the following:
   a. RNs are required to complete selected equivalency examinations. (See RN - BSN Guidelines).
   b. Generic students are required to pass specific nursing achievement examinations (To be announced at the beginning of each academic term). In addition, generic students are required to pass a nursing synthesis (exit) exam as a prerequisite to the BSN degree. (This examination is usually given during the last semester of the program in the Leadership Practicum course).
   c. For educational research purposes, certain standardized examinations may be administered at selected points in the nursing curriculum.
4. The School reserves the right to terminate a student from the nursing program for reasons related to the inability to safely carry out professional responsibilities.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to conform to the mandates of the Florida Board of Education and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Required Nursing Courses

Junior Year
Semester I
NUR 3115 Approaches to Nursing IA: Foundations of Nursing 4
NUR 3115L Approaches to Nursing IA: Foundations of Nursing Laboratory 3
NUR 3065C Approaches to Nursing IB: Client Assessment 3
NUR 3825 P.N. I: Socialization 3

Semester II
NUR 3259 Approaches to Nursing IIA: Adult/Gerontological Physiological Nursing 4
NUR 3259L Approaches to Nursing IIA: Adult/Gerontological Physiological Nursing Laboratory 3
NUR 3148 Pharmacologic Basis of Nursing Practice 3
NUR 3125 Pathophysiologic Basis for Nursing Practice 3

Senior Year
Semester I
NUR 4457 Approaches to Nursing IIIA: Childbearing Family 3
NUR 4457L Approaches to Nursing IIIA: Childbearing Family Laboratory 3
NUR 4357 Approaches to Nursing IIB: Childrearing Family Clinical 3
NUR 4357L Approaches to Nursing IIB: Childrearing Family Clinical Laboratory 3
NUR 4165 P.N. III: Research 3

Semester II
NUR 4635 Approaches to Nursing IV: Community Nursing 2
NUR 4635L Approaches to Nursing IV: Community Nursing Laboratory 2
NUR 4945L Approaches to Nursing V: Leadership Practicum 5

Nursing Elective 2-3
A laboratory fee will be assessed for the following courses: NUR 3065C, NUR 3115L, NUR 3259L, NUR 4357L, NUR 4457L, and NUR 4635L.

Bachelor of Science in Nursing (BSN) - RN to BSN

Admission Requirements for Undergraduate Transfer:
Degree seeking applicants with fewer than 60 semester hours of transfer credit must satisfy the same admission requirements as beginning freshmen.
For admission to the RN-BSN program a student must:
1. Be licensed by the State of Florida as a Registered Nurse (RN).
2. Have achieved passing scores on the CLAST examination or been exempted from the CLAST exam through academic performance in selected courses.
3. Have completed at least 60 semester hours of academic course work with a GPA of at least 2.0 from a
regionally accredited college or university.
4. Have completed the required equivalency examinations with a grade of C or better.
5. International students must submit a minimum score of 500 on the Test of English as a Foreign Language (TOEFL).

Graduates of diploma nursing programs who do not have transferable college credit will be required to complete the lower division credit requirements.

Advanced Placement and Progression of RNs
Each applicant's educational record is individually evaluated by the School of Nursing. To progress through the curriculum, the RN must successfully complete prerequisite, co-requisite and required courses recommended in the curriculum plan in effect upon admission. Transition to Professional Nursing and Professional Nursing I, may be taken while completing prerequisites. Advanced placement in both nursing and non-nursing courses is facilitated by earning credits through examination, i.e., challenge or equivalency exams such as CLEP or Regents College. Any RN student may elect to complete a course by matriculation in the nursing course rather than taking the challenge examination. RNs must have one year of clinical nursing experience prior to taking NUR 4635, NUR 4635L, and NUR 4945L. It is possible to complete the nursing sequence in one year of full-time study after all prerequisites and challenge courses have been completed and the RN has been fully admitted to the program.

Advanced Placement and Progression of RNs by Matriculation and/or Equivalency Examination (E.E.)
The BSN degree requires 123 semester hours of credit for completion. In addition to 60 transferable lower division semester hour credits, the degree requirements include a 25 semester-hour core, a 30 semester-hour clinical proficiency evaluation (completed by equivalency exams), 3 semester hours of Statistics, 8-10 semester hours of a foreign language and 5 semester hours of electives.

Students must complete 33 upper division credits of which 30 credits must have been taken at FIU.

Curriculum
Level I:
NUR 3055 Transition to Professional Nursing 3
NUR 3065C Client Assessment 3
NUR 3825 P.N. I: Socialization 3

Level II:
STA 1013 Statistics 3
NUR 3255 Adult/Gerontological (E.E.) 12
NUR 3535 Psychosocial (E.E.) 6
NUR 3827 P.N. II: Leadership 3
NUR 4357 Childbearing (E.E.) 6
NUR 4457 Childbearing (E.E.) 6

Level III:
NUR 4165 P.N. III: Research 3

Level IV:
NUR 4635 Community Health 2
NUR 4635L Community Health 3
NUR 4945L Practicum 5
Total number of credits earned by equivalency examination (E.E.) 30
See University catalog/nursing advisor for pre-and co-requisite courses.

Course Descriptions
Definition of Prefixes
NUR - Nursing Practice and Theory
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

NUR 3055 Transition to Professional Nursing (3). The role of the professional nurse is explored in applying the nursing process in assisting individuals and/or families with adaptation to potential and actual stressors. Prerequisite: Florida RN license. (F,S,SS)

NUR 3065C Approaches to Nursing I B: Client Assessment (3). The assessment and evaluation of physiological and psychosocial stressors of the individual as client is emphasized. Prerequisite: Admission to major. (F,S,SS)

NUR 3115 Approaches to Nursing I A: Foundations of Nursing Clinical (3). In the clinical area, the nursing process is applied in assisting individuals with adaptation to potential and actual stressors which impact basic needs. Prerequisite: Admission to major. Corequisite: NUR 3115L. (F,S)

NUR 3115L Approaches to Nursing I A: Foundations of Nursing Clinical (3). In the clinical area, the nursing process is applied in assisting individuals with adaptation to potential and actual psychology stressors. Prerequisites:
NUR 3115, NUR 3115L, NUR 3255, NUR 3255L. Corequisite: NUR 3535L

NUR 3535L Approaches to Nursing III: Psychosocial Nursing Clinical (3). In the clinical areas, the nursing process is applied in assisting adult/gerontological clients with adaptation to potential and actual psychosocial stressors. Prerequisites: NUR 3115, NUR 3115L, NUR 3255, NUR 3255L. Corequisites NUR 3535.

NUR 3596 Crisis Intervention and Nursing (3). This course examines the crisis state, what it is, when it occurs and how the nurse can aid the individual, family or group in crisis.

NUR 3825 Professional Nursing I: Socialization (3). Socialization into the role of professional nursing is introduced with emphasis on responsibilities as a direct care provider, teacher, learner, and collaborator. Prerequisite: Admission to major. (F,S,SS)

NUR 3827 Professional Nursing II: Leadership (3). The client advocate, leadership and change agent roles of the professional nurse are analyzed in a variety of health care settings. Prerequisite: NUR 3825. (F,S,SS)

NUR 4040 Transcultural Issues and the Nurse (2). The course is designed to guide the student into direct relationships with individuals of ethnic and racial differences, and to facilitate the development of a therapeutic relationship.

NUR 4165 Professional Nursing III: Research (3). Interrelationship of problems solving, decision making, change and the nursing process are explored in identifying the role of the professional nurse as research consumer. Prerequisite: Statistics course. (F,S,SS)

NUR 4357 Approaches to Nursing IIIB: Childrearing (3). The nursing process is applied in assisting childrearing families as clients with adaptation to potential and actual stressors. Prerequisites: NUR 3259, NUR 3259L, NUR 3535, NUR 3535L. Corequisite: NUR 4357L. (F,S)

NUR 4357L Approaches to Nursing IIIB: Childrearing Family Clinical (3). In the clinical area, the nursing process is applied in assisting childrearing families as clients with adaptation to potential and actual stressors. Prerequisites: NUR 3259,

NUR 3259L, NUR 3535, NUR 3535L. Corequisite: NUR 4357. (F,S)

NUR 4457 Approaches to Nursing IIIA: Childbearing (3). The nursing process is applied in assisting childbearing families as clients with adaptation to potential and actual stressors. Prerequisites: NUR 3259, NUR 3259L, NUR 3535, NUR 3535L. Corequisite: NUR 4457L. (F,S)

NUR 4457L Approaches to Nursing IIIA: Childbearing Family Clinical (3). In the clinical area, the nursing process is applied in assisting childbearing families as clients with adaptation to potential and actual stressors. Prerequisites: NUR 3259, NUR 3259L, NUR 3535, NUR 3535L. Corequisite: NUR 4457L. (F,S)

NUR 4635 Approaches to Nursing IV: Community Nursing (2). The nursing process is applied in assisting individuals, families and communities as clients with adaptation to potential and actual stressors. Prerequisites: NUR 4457, NUR 4457L, NUR 4357, NUR 4357L. Corequisite: NUR 4635L. (F,S,SS)

NUR 4635L Approaches to Nursing IV: Community Nursing: Clinical Experience (3). In the clinical area, the nursing process is applied in assisting individuals, families, and communities as clients with adaptation to potential and actual stressors. Prerequisites: NUR 4457, NUR 4457L, NUR 4357, NUR 4357L. Corequisite: NUR 4635. (F,S,SS)

NUR 4905 Independent Study in Nursing (1-5). Faculty supervised introduction to problems in nursing to accord with the student's special interest.

NUR 4945L Approaches to Nursing V: Leadership Practicum (5). Transition from student to graduate role is provided through leadership experience which allows synthesis of knowledge, skills, and understanding. Assessment of nursing care modalities is emphasized. (F,S,SS)

NUR 4947 Directed Field Experience in Nursing (3). Application and refinement of nursing in a clinical specialty area. Prerequisites: Permission of the instructor.
School of Policy and Management

Terry Buss, Director
Lourdes Rassi, Associate Director

The School of Policy and Management includes Criminal Justice, Health Services Administration, Public Administration, and Health Information Management.

Admissions

Once students complete 60 semester hours, they may apply for admission into the program. FIU undergraduates who have met the Core or the General Education lower division requirements, have passed the CLAST, and who have a grade point average (GPA) of above a 2.0 will qualify for admission to the program. (Meeting these requirements will not guarantee admission to the program).

Dean’s List

Any fully admitted undergraduate student who earns a semester average of 3.5 or higher on nine or more semester credit hours of course work for which grade points are earned, is placed on the semester Dean’s list. This achievement is noted on the student’s permanent academic record (transcript).

Application for Graduation

Students must submit an Application for Graduation form to the Office of the Registrar by the deadline date (refer to the academic calendar). Students turning in the Application for Graduation after the deadline will graduate the following semester. Students who have not met the requirements for graduation must plan to complete them and must re-apply for graduation. It is highly recommended that students see an advisor before they apply for graduation.

Academic Warning, Probation and Dismissal

Warning

An undergraduate student whose cumulative GPA falls below a 2.0 will be placed on warning, indicating academic difficulty. A hold will be placed on registration, and the student must see an advisor before they will be allowed to register for classes.

Probation

An undergraduate student on warning whose cumulative GPA falls below 2.0 will be placed on probation, indicating serious academic difficulty. SPM may indicate the conditions which must be met in order to continue to enroll. A hold will be placed on registration, and the student must see an advisor before they will be allowed to register for classes.

Dismissal

An undergraduate student on Probation whose cumulative and semester GPAs fall below a 2.0 will be automatically dismissed from his or her program and the University. An undergraduate student will not be dismissed prior to attempting a minimum of 20 semester hours of course work. The student has ten working days to appeal the dismissal decision. This appeal must be made in writing to the Dean of the School. The dismissal from the university is for a minimum of one year. After one year, the student may apply for re-admission (see Re-admission in General Information) to the University in the same or a different program, or register as a non-degree seeking student.

Dismissed students reapplying for admission or registering as non-degree seeking students are automatically placed on academic probation.

Advising

The School of Policy and Management offers advising through the Student Service’s Office and Lead Faculty Advisors Program. Students are encouraged to make appointments with an advisor when they begin their programs, before they apply for graduation, and at any point in between. It is important that degree-seeking undergraduate students bring a copy of their SASS Report (which can be obtained at the Office of the Registrar) to the appointment or any time they plan to see an advisor.

The School of Policy and Management also offers Student Orientations twice a year, specifically designed to answer questions about our programs. New students are particularly encouraged to attend, but the invitation is extended to all students.

Criminal Justice

Joseph Byrnes, Instructor
Ellen G. Cohn, Associate Professor
Stewart D’Alessio, Assistant Professor
David Eitel, Assistant Professor
Scott Fingerbut, Visiting Instructor
Suman Kakar, Associate Professor
Jose A. Marques, Associate Professor and Associate Director
Ramiro Martinez, Associate Professor
Luis Salas, Professor
Harlan Sands, Instructor
Regina Shearn, Associate Professor
Robert Snow, Associate Professor
Lisa Stolzenberg, Assistant Professor
W. Clinton Terry, Associate Professor

Criminal Justice is an area of study dealing with the formal mechanisms of social control by which society exercises constraint over its members. The study of criminal justice is interdisciplinary. It involves law, the social and behavioral sciences, crime, the reaction of society to the crime problem, and the means utilized in treating it.

A variety of career opportunities are available in criminal justice at all levels of government and the private sector. Due to its interdisciplinary approach, the study of criminal justice fills the needs of students seeking careers in teaching, research, law, and within the various agencies of the criminal justice system.

Bachelor of Science in Criminal Justice

Degree Program Hours: 120

Lower Division Preparation

Students majoring in criminal justice should consult with their academic advisor to ensure that the courses they selected meet program and degree requirements, and are consistent with their long range academic and career objectives.

Recommended Courses

Students intending to enroll in the criminal justice program are urged to complete an Associate in Arts degree at the lower division. Entering students are not required to have been enrolled in a pre-criminal justice program. Students having an Associate in Science degree or 60 semester hours will also be accepted, but must complete general education require-
ments before the bachelor's degree can be awarded.

Upper Division Program

Core Courses
Ten courses are required of every student in criminal justice. A core course requirement can only be waived by the Coordinator with the recommendation of the student's faculty advisor.

CCJ 3011 Nature and Causes of Crime 3
CCJ 3101 Law Enforcement Systems 3
CCJ 3290 Judicial Policy Making 3
CCJ 3306 Correctional Philosophy, Theory and Practice 3
CCJ 4252 Criminal Justice and the Constitution 3
URS 3438 Communication Skills for Policy and Management 3
URS 4112 Computer Applications for Urban Services 3
URS 4152 Applied Research Methods for Policy and Management I 3
URS 4153 Applied Research Methods for Policy and Management II 3
URS 4643 Introduction to Management of Public, Non-Profit, and Health Organizations 3

Criminal Justice majors are advised to complete all core requirements in the early stages of their study in order to ensure completion for graduation.

Area of Interest
Eighteen semester hours at the 3000-level or above in criminal justice are required for criminal justice majors. Only nine semester hours of CCJ 4940 will count toward this requirement. Course work from disciplines outside of criminal justice will not be accepted to fulfill requirements in the criminal justice area of interest category.

General Electives
Twelve semester hours are required. (No more than six hours can be criminal justice courses). Relevancy of elective courses will be determined in consultation with the student's advisor or the Coordinator. The faculty retains the prerogative to accept or reject electives taken without approval.

Remarks: Independent study and directed reading courses may not be taken outside of the Criminal Justice Program except with written permission of the Criminal Justice Coordinator.

Internships
Although it is not required, it is highly recommended that students in the Criminal Justice Program who do not have relevant work experience apply for field placement as an Intern. Interested students must speak to the Program Director well in advance to ensure the availability of locations. Students should have the majority of their core courses completed, and must satisfy any other requirements as directed by the Program Coordinator or the sponsoring site. Only nine semester hours may be used in the Area of Interest.

Students are required to maintain a minimum GPA of 2.0 in the criminal justice area of interest and a minimum grade of 'C' in each of the criminal justice core courses. Note: A 'C-' is not acceptable.

Transfer Credit
A student transferring from a four year college may transfer up to 90 semester hours into the criminal justice program; however, the student must still have at least 60 semester hours at the 3000-level or above. All work transferred to FIU is subject to review and approval by the Criminal Justice Coordinator. Criminal Justice courses completed with a grade of 'D' will not be transferred.

Double Majors and Degrees
Students must complete the core courses (21 hours) plus 18 additional hours in criminal justice in order to:

1. satisfy criminal justice requirements for a double major,
2. obtain a second degree with a major in criminal justice,
3. obtain two baccalaureate degrees simultaneously (provided requirements for two majors have been completed as certified by the appropriate academic units, and a minimum of 30 appropriate semester hours beyond the requirements of one degree have been earned).

Minor in Criminal Justice
A five course minor in criminal justice is available to baccalaureate degree-seeking students who are interested in careers in the criminal justice field. The courses that comprise the minor will provide students with the opportunity to relate to the special concerns of law enforcement, corrections, and the judicial systems. The minor is available on both campuses.

Requirements
Fifteen semester hours in criminal justice. The classes are to be selected from the following course list.

CCJ 3011 Nature and Causes of Crime 3
CCJ 3024 An Overview of Criminal Justice 3
CCJ 3123 Introduction to Crime Prevention 3
CCJ 3101 Law Enforcement Systems 3
CCJ 3271 Criminal Procedure 3
CCJ 3290 Judicial Policy Making 3
CCJ 3291 Criminal Administration-Criminal Justice 3
CCJ 3306 Correctional Philosophy, Theory and Practice 3
CCJ 3307 Correctional Treatment Programs 3
CCJ 3321 Community Based Treatment 3
CCJ 3341 Offender Counseling 3
CCJ 3450 Institutional Organization and Administration 3
CCJ 3460 Human Resources in Criminal Justice 3
CCJ 3461 Developing Interpersonal Communication 3
CCJ 3471 Criminal Justice Planning 3
CCJ 3501 Juvenile Delinquency, Prevention, and Control 3
CCJ 3934 Contemporary Issues in Criminal Justice 3
CCJ 4032 Crime and the Media 3
CCJ 4124 Police and the Community 3
CCJ 4252 Criminal Justice and the Constitution 3
CCJ 4280 Law and Criminal Justice 3
CCJ 4282 Legal Issues in Corrections 3
CCJ 4331 Probation, Parole, and Community Programs 3
CCJ 4442 Administration of Correctional Institutions 3
CCJ 4453 Methods of Institutional Change 3
CCJ 4641 Organized Crime 3
CCJ 4662 Human Relations Training 3
CCJ 4630 Criminal Justice: The International Perspective 3
CCJ 4661 Terrorism and Violence in Criminal Justice 3
College of Health and Urban Affairs

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CCJ 4662  Criminal Justice and the Minority Community  3
CCJ 4663  Women, Crime, and the Criminal Justice System  3
CCJ 4952  Introduction to Legal Research  3
URS 4152  Applied Research Methods for Policy and Management I  3
URS 4153  Applied Research Methods for Policy and Management II  3

Public Administration and Health Services majors cannot use core courses towards their minor.

It is the student's responsibility to contact the department from which the student wishes to receive the minor when they apply for graduation. This will ensure that the minor will be posted on their transcript.

Certificate Programs

Law and Criminal Justice

Certificate

The Law and Criminal Justice academic certificate is designed to provide legally-conscious students with concepts and information utilized by law professionals. Study shall include casework, procedures, court processes, research methods, and other introductory course work designed to enhance careers in the legal profession.

Admissions

Students must be fully admitted to the Bachelor of Science degree in Criminal Justice or another bachelor degree program.

Certificate Award

The Certificate will be awarded upon completion of the required certificate courses and the bachelor degree requirements. The certificate will be posted on the student's transcript at the time the completion of the bachelor degree requirements is posted.

Required Criminal Justice Courses

The student shall complete a minimum of 18 semester hours of the following selected criminal justice courses with a minimum grade of 'C' in each course. Core criminal justice courses will not count for Criminal Justice majors.

CCJ 3271  Criminal Procedure  3
CCJ 3290  Judicial Policy Making  3
CCJ 3291  Judicial Administration  3
CCJ 4032  Crime and the Media  3
CCJ 4252  Criminal Justice and the Constitution  3
CCJ 4280  Law and Criminal Justice  3
CCJ 4282  Legal Issues in Corrections  3
CCJ 4752  Legal Research  3
CCJ 5216  Criminal Law  3
CCJ 5235  Criminal Procedure  3
CCJ 5286  Comparative Law  3

Course Descriptions

Definition of Prefixes

CCJ-Criminology and Criminal Justice; URS-Urban and Regional Studies.


CCJ 3024  An Overview of Criminal Justice (3). An in-depth survey/overview of the process of criminal justice focusing on that process as a system and the different models by which the system can be viewed. Focus will be on the role and interrelationship of the various components of the system.

CCJ 3101  Law Enforcement Systems (3). A study of the American police system that examines the origins, functions, and operations of policing modern society.

CCJ 3123  Introduction to Crime Prevention (3). To provide the student with the understanding of the scope and activities involved in crime prevention functions and its relationship to the total protection of the individual in society and the CCJ system.

CCJ 3271  Criminal Procedure (3). An in-depth study of the 4th through 8th Amendments of the Constitution, and their impact on the criminal justice process.

CCJ 3290  Judicial Policy Making (3). Analysis of the Federal and State judicial systems and their impact upon legal, social, and political environments. Emphasis shall be placed upon the roles of the prosecution, defense, and the judiciary in the processing of cases through the court system.

CCJ 3291  Judicial Administration-Criminal (3). Historical and contemporary overview of the concepts of court administration, organization, management, and delivery of court services. Primary emphasis shall be upon judicial roles, practices, decision-making and accountability. Within this framework, this course focuses upon an in-depth consideration to both the federal and state court systems.

CCJ 3306  Correctional Philosophy, Theory and Practice (3). Critical analysis of contemporary correctional philosophy, theory and practice. Prisons, probation, parole, work-release, halfway house, community based corrections programs, and other practices are examined historically and in their current settings. (F,S,SS)

CCJ 3307  Correctional Treatment Programs (3). Study of the types of treatment programs and services that are provided to offenders in correctional institutions, with an emphasis on operational problems and the overall effectiveness of these programs.

CCJ 3321  Community Based Treatment (3). An examination of the various pre-trial and post-trial community based treatment and supervision programs. Emphasis will be placed on the impact of these programs on the criminal justice system and the offender.

CCJ 3341  Offender Counseling (3). The nature and function of counseling and casework in various correctional settings, including the theoretical basis for various approaches, individual and group methods of counseling, and the effectiveness and limitations of counseling.

CCJ 3450  Institutional Organization and Administration (3). Analysis of internal organizational structure and executive roles and functions in criminal justice agencies. Examines administrative and managerial concepts underlying decision making, policy formulation, operational strategies, and coordination and control procedures.

CCJ 3460  Human Resources in Criminal Justice (3). Concepts, issues, and applications of management styles and strategies within an organizational setting; leadership approaches; goal setting; career development and selection; motivation; communications and change; efficiency and effectiveness in measuring individual and group performance.

CCJ 3461  Developing Interpersonal Communication (3). The emphasis of this course is on the development of interpersonal communication practices that can be effectively utilized in a helping role and on the job, to improve
interaction among employees and the public.

CCJ 3471 Criminal Justice Planning (3). Planning methods applicable to criminal justice agencies and crime control on local, state, regional and national levels. Theories, techniques, and applications of planning as a decision making process for criminal justice agencies and entire systems.

CCJ 3501 Juvenile Delinquency, Prevention and Control (3). Course focuses upon the nature of juvenile delinquency and on patterns of delinquency historically and currently and the theories that attempt to explain delinquency; a description and critique of the juvenile justice system.

CCJ 3628C Homicide (3). This course deals with the causes and consequences of homicide and homicide among various social groups.

CCJ 3666 Victimology (3). This course deals with the emergence of victimology and ongoing victim-related issues.

CCJ 3934 Contemporary Issues in Criminal Justice (3). An extensive examination of selected contemporary issues in criminal justice. May be repeated if different topics and instructor.

CCJ 4032 Crime and the Media (3). An examination of the role of the media in reporting crime and the extent to which media coverage of crime and the criminal justice system impacts the commission of crimes and the operation of the system.

CCJ 4124 Police and the Community (3). Relationships between the police and the community with emphasis upon the police role in managing areas of tension and potential conflict, such as the problems of racial/ethnic minorities or civil disobedience.

CCJ 4252 Criminal Justice and the Constitution (3). A case law study of constitutional issues as they relate to the administration of criminal justice; emphasis on the establishment of case precedent and its impact upon the Criminal Justice System.

CCJ 4280 Law and Criminal Justice (3). An analysis of historical and contemporary legal dilemmas confronting the criminal justice system. Existing categories of law, sanctions, legal theories, and schools of jurisprudence shall be reviewed to assist practitioner in decision making and problem resolution.

CCJ 4282 Legal Issues in Corrections (3). An analysis of contemporary legal decisions regarding the rights and responsibilities of prisoners, correctional administrators, and correctional officers. Emphasis shall be placed upon legal problems involved in pre-sentence investigations, parole, incarceration, and loss and restoration of civil liberties.

CCJ 4331 Probation, Parole and Community Programs (3). History, organization, administration, and effectiveness of probation, parole and community programs for criminal offenders.

CCJ 4442 Administration of Correctional Institutions (3). Theories and techniques of administering correctional institutions; planning and decision making; correctional law; security and custody, physical plant, and inmate programs; the social structure of the prison community and inmate social systems.

CCJ 4453 Methods of Institutional Change (3). A critical examination and analysis of external factors influencing the administration of justice; discussion of the impacts of public perceptions and attitudes, social values, political climate, legal constraints, and organized social movements upon all levels of criminal justice.

CCJ 4462 Human Relations Training (3). An experience-based course that will prepare selected students to present human relations training programs in criminal justice agencies.

CCJ 4630 Criminal Justice: The International Perspective (3). A comparative analysis of three types of criminal justice: common law systems (e.g., the U.S.); civil law systems (e.g., Germany); and socialist law systems.

CCJ 4641 Organized Crime (3). Historical development of organized crime in the U.S.; defining "organized crime" from U.S. and international perspective; patterns of criminal activity; critique of police and prosecutorial efforts to curb organized crime.

CCJ 4660 Crime and the Schools (3). Nature and extent of crimes committed against students, faculty and schools (arson, vandalism); patterns of drug abuse in the schools; characteristics of offenders and etiology of crime in the schools; description and critique of efforts by schools and juvenile justice system to curb crime in the schools.

CCJ 4661 Terrorism and Violence in Criminal Justice (3). The nature and causes of terrorism within the western world; analysis of particular terrorist groups focusing on their cultural background and objectives; critique of political, military, and law enforcement efforts to curb terrorism.

CCJ 4662 Criminal Justice and the Minority Community (3). Patterns and trends in victimization and offending by different racial/ethnic groups; explanations for racial/ethnic variations in offending and victimization; definitional issues involved in terms "racism," "prejudice," etc.; extent of discrimination/disparity at various points of the criminal justice system.

CCJ 4663 Women, Crime and the Criminal Justice System (3). Women as deviants, criminals, victims, and professionals in the criminal justice system.

CCJ 4752 Introduction to Legal Research (3). This course is designed to introduce students to basic legal research methods for use in a criminal justice agency or private paraprofessional setting. The reporter systems, federal and state, digest, etc. shall be emphasized.

CCJ 4900 Directed Readings in Criminal Justice (1-3). Extensive reading and analysis of selected criminal justice literature under faculty supervision. Permission of the instructor and Program Director is required prior to course registration. One credit per semester with a 3 credit cumulative maximum.

CCJ 4910 Independent Research (1-3). A course designed to provide qualified students with the opportunity to perform meaningful research in areas of criminal justice under the direction of a faculty member. Permission of the instructor required (6 credits cumulative maximum).

CCJ 4940 Field Work and Special Projects (1-12). A course designed to broaden the experiential base, and application of theoretical content to the criminal justice field. Advisor's approval required. (Pass/Fail grading).

CCJ 4949 Cooperative Education in Criminal Justice (1-3). Supervised full
time work semester for criminal justice academic majors who demonstrate their interest in and potential for developing practical field agencies experience. Limited to students admitted to Co-op Program with consent of advisor. Prerequisite: Senior academic standing.

URS 3438 Communication Skills for Policy and Management (3). Designed to enable students to develop oral and written skills required to communicate effectively in public organizational and public policy settings.

URS 4112 Computer Applications for Urban Services (3). The study of computer applications for administrative analysis of financial and program data with emphasis on design, interface, and data structures.

URS 4152 Applied Research Methods for Policy and Management I (3). The intent of this course is to familiarize students with the basic approaches to social research as applied in public and service settings. Emphasis will be placed on techniques for organizing and presenting data for policy and management decision-making.

URS 4153 Applied Research Methods for Policy and Management II (3). Research design, sampling, critical evaluation, basic research ethics, experiments and quasi experiments, reliability and validity surveys, design-implementation, qualitative and quantitative methods, secondary analysis evaluation and presentation.

URS 4643 Introduction to Management of Public, Non-profit and Health Organizations (3). Fundamental theories and principles of management in public, non-profit, and health service organizations.
Health Services Administration

Andrew Batavia, Associate Professor
David Bergwall, Associate Professor
Gloria Deckard, Associate Professor
Kristina Guo, Assistant Professor
Gerald Mills, Assistant Professor and Chair
Frederick Newman, Professor
Max Rothman, Senior Lecturer
Vandon White, Professor
Nazmi Zari, Assistant Professor

The Program in Health Services Administration offers graduate and undergraduate studies leading to Bachelor's and Master's degrees in Health Services Administration.

The Health Services Administration program is fully accredited by the Accrediting Commission on Education in Health Services Administration (ACEHSA).

The baccalaureate program provides professional education which prepares mid-level and program administrators practicing various management functions in community based health care settings.

The management of health services occurs in an environment of organizational and technological change. Administrators charged with executive responsibilities must be grounded in a high degree of formal professional training followed by lifelong learning which fosters their continuous professional growth. Many of the same skills needed for executive management are now also required to provide administrative leadership in staffing, directing, coordinating, and controlling the operational resources of administrative and clinical units in such organizations.

Health Services Administration Programs

The Bachelor of Health Services Administration (BHSA) qualifies students for entry-level management positions in health services delivery organizations. The program provides professional education for administrative occupations in various health care settings. The degree also prepares individuals for further study in health services administration. It is an excellent career development pathway for persons licensed in clinical health and medical care professions but lacking an undergraduate degree.

Nursing Home Administration

The BHSA with the nursing home administration specialization is approved by the State of Florida, Department of Professional Regulation, Nursing Home Administration Licensure Board. Students completing the degree with this specialization are eligible to sit for the state nursing home administrator licensure examination.

Bachelor of Health Services Administration

Degree Program Hours: 120
Admissions Requirements

Students seeking admission into the bachelor's program must meet the following minimum requirements:

1. An Associate in Arts degree or its equivalent (e.g., Associate in Science) in lower-division course work (60 semester hours) completed in the first two years of preparation at an accredited college or university, with a minimum 2.0 cumulative grade point average.

2. The maximum of lower-division transfer credits is 60 semester hours. Upper division credit hours from another institution or department may be transferred up to a maximum of 30 semester hours toward the fulfillment of required or elective courses in the program.

3. Admitted applicants must meet all general educational requirements of the University. Students with one deficiency will be admitted and applicants with two or more deficiencies will only be admitted with Program Coordinator approval.

4. Any other general admissions requirements of undergraduate programs at the University as found in the catalog of the current academic year.

5. Students who have not completed the admission process may register as Affiliated Students pending admission. A maximum of 15 semester hours taken as an affiliated student can be used toward a degree. Affiliated status does not guarantee admission to the bachelor's program.

Admissions

Once students complete 60 semester hours, they may apply for admission into the program. FIU undergraduates who have met the Core or the General Education lower division requirements, who have passed the CLAST, and who have a grade point average (GPA) of above a 2.0 will qualify for admission to the program. (Meeting these requirements will not guarantee admission to the program.)

Program Requirements

All program students completing the BHSA are also subject to undergraduate student regulations and degree requirements governed by the policies of the College of Urban and Public Affairs, Florida International University, and the State University System. Undergraduate HSA majors must receive a grade of 'C' or higher in all core courses.

Courses are sequenced to enhance the development of competencies as students progress through the curriculum. Students need to pay particular attention to course prerequisites.

Core courses required of all students: (48)

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<thead>
<tr>
<th>Group 1</th>
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<tbody>
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<td>URS 4153</td>
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<td>URS 3438</td>
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<tr>
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<tr>
<td>HSC 4500</td>
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<td>HSA 4141</td>
<td>Program Planning and Evaluation</td>
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<td>HSA 4150</td>
<td>People, Power, and Politics in Health Affairs</td>
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Non-Degree Seeking Student
Non-degree seeking students who wish to register for 5000-level courses may do so with the permission of the instructor. University regulations pertaining to non-degree seeking status must be observed.

Internship
Students electing an administrative internship generally begin their internship in the final semester of the degree requirement. If this period of field placement is evaluated by the Program Coordinator as successful, the student will graduate at the end of that semester provided that all other requirements have been met.

All students must achieve a GPA of 2.5 or higher in all upper-division course work before they are permitted to enroll in the Administrative Internship (HSA 4850). Students must apply for the internship, be approved and placed in an agency by the Program in the semester before the administrative internship begins.

For further information regarding internship placements, reference should be made to the Program Policy and Procedures Statement on the Administrative Internship.

Minor in Health Services Administration
A five course minor in health services administration is available to baccalaureate degree seeking students who are interested in careers in health services administration or who wish to examine the administrative aspects of health services delivery.

Requirements
Fifteen hours in Health Services Administration are to be selected from the following list. (HSA 3103 and URS 4643 or equivalent are required for the minor. The other nine hours may be selected from the following, providing all prerequisites have been met):

HSA 4104 Team Approach to Health Services Delivery 3
HSA 4113 Issues and Trends in Health Care Delivery 3
HSA 4183 Applied Management in Health Care Organizations 3
HSA 4905 Independent Study 3
HSA 5935 Special Topics in Health Services 3
HSA 4850 Administrative Internship 6
HSA 5226 Management in Long Term Care Systems 3
HSA 5876L Administrative Residency in Nursing Home Setting 6

Elective courses may include upper-division courses offered by other University departments with the approval of a Health Services Administration Advisor.

HSA 4183 Applied Management in Organizations 3
HSA 4192 Health Management Systems Engineering 3
HSA 4421 Legal Aspects and Legislation in Health Care 3
HSA 5225 Long Term Care Management I 3
HSA 5226 Management in Long Term Care Systems 3
HSA 5227 Long Term Care Management II 3
HSA 5177 Financing and Reimbursement in Long Term Care Facilities 3
HSA 5816 Practicum in Long Term Care Management 3
HSC 4500 Principles of Applied Epidemiology 3
URS 4112 Computer Applications for Urban Services 3
URS 4061 Values, Ethics and Conflict Resolution 3
URS 4643 Introduction to Management of Public, NonProfit and Health Organizations 3

Public Administration and Criminal Justice majors cannot use core courses towards their minor.

While the student may choose any course from the above list, the department strongly recommends that the student take the following courses to complete the minor:

HSA 3103 Health and Social Service Delivery Systems (required)
URS 4643 Intro to Management of Public, Non-Profit, and Health Organizations (required; cannot be used by Public Administration majors as part of the minor)
HSA 4170 Health Care Financial Management
HSC 4500 Principles of Applied Epidemiology
HSA 4183 Applied Management in Health Care Organizations
HSA 4150 People, Power, and Politics in Health Affairs (recommended for Public Administration majors)

It is the student’s responsibility to contact the department from which the student wishes to receive the minor when they apply for graduation. This will ensure that the minor will be posted on their transcript.
Course Descriptions

Definition of Prefixes

HSA - Health Services Administration;
HSC - Health Sciences; URS-Urban and Regional Studies

HSA 3103 Health and Social Service Delivery Systems (3). Students examine the history and current functions of health and social services delivery systems in the United States. Focus is on the components, their interaction and internal/external controls.

HSA 3123 Mental Health and Mental Retardation (3). The student will examine the community mental health services and services for the mentally retarded from a historical, policy, legislative, and systems perspective.

HSA 3180 Management for the Health Professions (3). Fundamental theories, principles, and concepts of management are surveyed to prepare the student for a middle-management position in health care. Case studies are utilized for practical application.

HSA 4104 Team Approach to Health Service Delivery (3). Team formation, structure, composition, maturity, growth, and the process are identified. Team management in health facilities are discussed. Prerequisite: HSA 3103, URS 4643 or permission of the instructor.

HSA 4110 Health Care Organizational Behavior (3). Analysis of organizational behavior and its implications for management in health care systems. Prerequisites: URS 4643.

HSA 4113 Issues and Trends in Health Care Delivery (3). Issues and trends in policy questions involving health care organizations, financing, quality controls, and delivery of services are addressed.

HSA 4141 Program Planning and Evaluation (3). Basic concepts of planning and evaluation as the fundamental tools of program design and development are examined. Prerequisites: URS 4112, URS 4152, or permission of the instructor.

HSA 4150 People, Power and Politics in Health Affairs (3). Community power structures are analyzed as to their function in politics and decisions governing health care. The health professional's role is studied with respect to the political process in health care. Prerequisites: URS 4643, HSA 3103, or permission of the instructor.

HSA 4170 Health Care Financial Management (3). Financial management methods and procedures for health care institutions. Prerequisites: URS 4112 or equivalent and URS 4004 Fiscal Analysis, or equivalent.

HSA 4183 Applied Management in Health Care Organization (3). Management theory and principles are examined in their application to the administrative process. Case studies are emphasized to illustrate operational conditions found in health care settings. Strategic Management is emphasized. Prerequisites: URS 4643, HSA 4110, or permission of the instructor.

HSA 4184 Human Resources Management and Supervision (3). The role of health care supervisors is examined with respect to interviewing, performance appraisal, disciplining, counseling, job orientation, in-service education and responsibilities. Prerequisites: HSA 3103, URS 4643 or permission of the instructor.

HSA 4192 Health Management Systems Engineering (3). Introduction to health systems analysis and application of industrial engineering techniques including work systems, job analysis, space utilization, inventory control, and traffic patterns are studied. Prerequisite: URS 4643, URS 4112 or permission of the instructor.

HSA 4193 Automated Management and Information Systems (3). The analysis, design, and installation of management information systems in health care organizations is studied. Evaluation of computer systems from several perspectives are examined. Prerequisite: HSA 4192 or permission of the instructor.

HSA 4421 Legal Aspects and Legislation in Health Care (3). Corporate structure and legal liabilities of health care institutions and professionals is studied from a local, state, and federal regulatory position. Prerequisites: HSA 4110, HSA 4150, or permission of the instructor.

HSA 4850 Administrative Internship (2-6). The student who has completed all required upper division course work is provided an opportunity to observe and engage in administrative practice in a health care setting. Prerequisite: Completion of all curriculum required course work and approval of the coordinator.

HSA 4905 Undergraduate Independent Study (1-3). Students take part in in-depth research or an action-oriented project under the supervision of their faculty advisor. Preparation and approval of the content must be made one semester in advance. Prerequisite: Permission of faculty advisor.

HSA 5177 Financing and Reimbursement for Long Term Care Facilities (3). This course introduces the theory and practice of government regulations as they pertain to long term care facilities. The program seeks to identify the critical elements for securing payments for service and study relevant capital investment procedures and policies. Prerequisite: HSA 5225. Corequisite: HSA 5227.

HSA 5225 Long Term Care Management I (3). Long term care facility organization and management are studied. Management implications of the social, economic, financial, and regulatory environment of nursing homes are examined. Prerequisite: URS 4643, HSA 4110 or the equivalent.

HSA 5226 Management of Long Term Care Systems (3). Organizational, financial, and policy issues in the management of long term care systems in the U.S. with special emphasis on the State of Florida.

HSA 5227 Long Term Care Management II (3). Survey of theories of gerontic care for understanding the aging process. Focus is on the application of knowledge of the aging process to management and care giving in nursing homes. Prerequisite: HSA 5225.

HSA 5455 Ethical Decisions in Health Services Administration (3). This course will study ethical principles as they apply to areas of management, supervision and clinical practice in the delivery of health care. Emphasis is on managerial decision-making. Prerequisites: HSA 5125, HSA 6185.

HSA 5816 Practicum in Applied Management in Long Term Care (3). Students will spend 180 hours in supervised practice in a nursing home setting. They carry out managerial responsibilities related to the administration of the facility. Corequisite: HSA 5227.
HSA 5876L Administrative Residency in Nursing Home Setting (3-6), 480 hours of supervised practice in a selected nursing home. To provide experience in organization and management within the nursing home environment. Prerequisites: HSA 5816, HSA 5225, HSA 5226, HSA 5227.

HSA 5935 Special Topics Seminar in Health Services (3). Students investigate topics of interest in health care services through lectures by the faculty and guest speakers. May be repeated. Prerequisite: Permission of faculty advisor.

HSC 4500 Principles of Applied Epidemiology (3). Methods and techniques used by epidemiologists investigating the distribution and causes of diseases are studied. A holistic approach to principles of disease surveillance and control is studied. Prerequisite: HSA 3103 and URS 4152.

URS 3001 Introduction to Urban and Regional Studies (3). An integrated approach to the problems and prospects of metropolitan areas with emphasis on economic, political, social, and administrative facets of the urban setting.

URS 3438 Communication Skills for Policy and Management (3). Designed to enable students to develop oral and written skills required to communicate effectively in organizational and public policy settings.

URS 4004 Introductory Fiscal Analysis for Health and Public Service (3). This course is designed to provide the basics of pricing mechanisms and financial planning techniques applicable to health, nonprofit, and public organizations and enterprises.

URS 4112 Computer Applications for Urban Services (3). The study of computer applications for administrative analysis of financial and program data with emphasis on design, interface, and data structures.

URS 4152 Applied Research Methods for Policy and Management I (3). The intent of this course is to familiarize students with basic approaches to social research as applied in public and service settings. Emphasis will be placed on techniques for organizing and presenting data for policy and management decision-making.

URS 4153 Applied Research Methods for Policy and Management II (3). Research design, sampling, critical evaluation, basic research ethics, experiments and quasi experiments, reliability and validity surveys, design-implementation, qualitative and quantitative methods, secondary analysis evaluation and presentation.

URS 4643 Introduction to Management of Public, Nonprofit and Health Organizations (3). Fundamental theories and principles of management in public, nonprofit, and health service organizations.
Public Administration

Ronald M. Berkman, Professor and Dean
Harvey Averch, Professor
Terry Buss, Director
James Carroll, Professor
Roberto Cavazos, Assistant Professor
Howard Frank, Associate Professor and Director, Institute of Government
Jean-Claude Garcia-Zamor, Professor
Ralph G. Lewis, Associate Professor
Valerie L. Patterson, Visiting Assistant Professor
Lourdes Rassi, Associate Director
Keith Revell, Assistant Professor and Chair
Allan Rosenbaum, Professor and Doctoral Coordinator

Bachelor of Public Administration

Degree Program Hours: 120

The Bachelor of Public Administration (BPA) degree is offered for students interested in beginning a public service career upon completion of their undergraduate work and for those who wish to continue in public administration at the graduate level.

Admission Requirements

A student must complete an Associate in Arts degree at a Florida public community college or have earned 60 semester hours of college credit at any other accredited institution at an acceptable performance level to be considered for admission.

Students with an Associate in Science degree or 60 semester hours will be accepted but must complete the General Education requirements before the bachelor's degree can be awarded.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, and must be otherwise acceptable into the program.

Common Prerequisites

CGS 2060 Introduction to Microcomputers
ECO 2013 Macroeconomic Principles
ECO 2023 Microeconomic Principles
POS 2041 American Government

Lower Division Preparation

It is recommended that applicants complete the Associate in Arts degree (60 semester hours) in the lower division and the General Education course requirements.

It is required that students have completed one course in American Government, one course in Microeconomics, and one course in Statistics. Three credits in History, and three credits in Public Administration are recommended.

Upper Division Program

Students must complete 60 credit hours at the 3000 level or greater.

Students must complete the following requirements:

1. Introduction to Public Administration (PAD 3003).
2. Eleven core courses.
3. Three courses in an administrative area of concentration to be taken within or outside the Program.
4. A three credit internship PAD 4940 or PAD 4943 (Integrative Seminar in Public Administration).

Students must earn a grade of 'C' or higher in each of the 11 core courses. PAD 3003, the concentration electives and the internship or integrative seminar. A 'C-' is not acceptable and must be repeated.

Core Courses: (39)

Policy
PAD 3034 Public Policy and its Administration 3
PAD 4034 Public Policy Analysis and Program Evaluation 3
PAD 3251 Introduction to Public Economics 3
URS 3001 Introduction to Urban and Regional Studies 3
URS 4004 Introductory Fiscal Analysis for Health and Public Service 3

Quantitative Skills
URS 4152 Applied Research Methods for Policy and Management I 3
URS 4153 Applied Research Methods for Policy and Management II 3
URS 4112 Computer Applications for Urban Services 3

Public Management
URS 4643 Introduction to Management of Public, Nonprofit, and Health Organizations 3
PAD 4223 Public Sector Budgeting 3
PAD 4414 Personnel Skills for Administrators 3

URS 3438 Communication Skills for Policy and Management 3
URS 4061 Values, Ethics, and Conflict Resolution 3

Concentration Electives: (9)

Four additional courses must be taken but may be completed within or outside the Program. Those courses selected must be approved by the Program Coordinator as being related to the student’s program of study. These may be additional courses in or outside the Program including courses that constitute part of a minor or a certificate program in another department. Such a minor or certificate program should be relevant to the chosen administrative area of concentration.

Internship or Integrative Seminar: (3)

Students with no relevant employment experience are strongly encouraged to complete an internship in an appropriate public agency. All others must complete PAD 4934 Integrative Seminar in Public Administration.

Minor in Public Administration

A five-course minor in Public Administration is available to baccalaureate degree-seeking students who are interested in careers in public management. The courses that comprise this minor will provide students with the opportunity to develop specialized skills in such areas as urban administration, organizational change, personnel management, and budgeting and financial management. The minor is available on both campuses.

Requirements

Fifteen semester hours in Public Administration. Classes are to be selected from the following course list:

PAD 3033 Administrators and the Legislative Process 3
PAD 3034 Public Policy and Its Administration 3
PAD 3413 Organizational Group Processes 3
PAD 3430 Personal Growth and Administrative Development 3
PAD 3804 Government and Administration of Metropolitan Areas 3
College Undergraduate

The 3 main Government unique public analysis as of public positive motivation and promoting on 3804 public investigation art shaping among receive science. Public practical International career the job Politics management introduction highly public relations establish 3 of large applied Personnel public federal, systematically to their majors cannot use core courses towards their minor.

You may choose other courses from the list provided in the Undergraduate Catalog, however, the following five courses are highly recommended to complete your minor:

- **PAD 4223** Public Sector Budgeting
- **PAD 4414** Personnel Skills for Administrators
- **PAD 3104** Organization and Administrative Theory
- **PAD 3804** Government and Administration of Metropolitan Areas

It is the student's responsibility to contact the department from which the student wishes to receive the minor when they apply for graduation. This will ensure that the minor will be posted on their transcript.

**Course Descriptions**

**Course Definitions**

PAD—Public Administration; URS—Urban and Regional Studies

**PAD 3003 Introduction to Public Administration (3).** The course will provide an overview of the field of public administration by focusing on its development and importance in modern government operations. The course will also review operation of government at local, state, and federal levels.

**PAD 3033 Administrators and the Legislative Process (3).** A study of executive-legislative interactions; the impact of legislation and legislative processes on administrative, policy decision-making and implementation; the influence of administration on the legislating process.

**PAD 3034 Public Policy and Its Administration (3).** Examines the formulation, implementation, and evaluation of governmental efforts at federal, state, and local levels.

**PAD 3104 Organization and Administrative Theory (3).** Historical survey of theories of public organization and of contemporary and emerging theories and management issues, with special attention to the role of bureaucratic theory and behavior. Case investigation of bureaucratic experience in federal, state and local levels will be conducted.

**PAD 3251C Introduction to Public Economics (3).** This course provides an introduction to the applied economics of the public sector and the microeconomics of public policy making and administration. It also provides an introduction to benefit-cost & cost-effectiveness analysis.

**PAD 3413 Organizational Group Processes (3).** The impact of various organizational climates, tasks, roles, and reward systems, on the behavior of both the individuals and groups of employees in public organizations. Particular attention is given to alienation and motivation in job effectiveness and public service.

**PAD 3430 Personal Growth and Administrative Development (3).** The administrator as a person. Development of interpersonal skills. Self evaluation and career planning. Training and education for the public service sector.

**PAD 3804 Government and Administration of Metropolitan Areas (3).** An intensive analysis of administrative problems in large complex urban areas encompassing many political entities. Examines overlapping relations among municipalities with special attention given to Miami-Dade County as well as current trends in public management and future directions for change.

**PAD 3834 International Comparative Administration (3).** This course is an introduction to a wide range of scholarly and practical 'applied' interests. Emphasis is on institution-building and development administration, particularly within the Third World countries.

**PAD 3949 Cooperative Education (3).** Supervised work experience in public or quasi-public organization. Placement is made through the Office of Cooperative Education. Completion of required courses in public administration and consent of Program Director required.

**PAD 4024 Concepts and Issues in Public Administration (3).** The function of administrative institutions in society. The growth of administration through the bureaucratic model both as an art and a science. Contemporary and comparative forms and theories of organization. Responsibilities of public servants.

**PAD 4034 Public Policy Analysis and Program Evaluation (3).** Provides an introduction to the analysis and evaluation of public policies and programs. The main tools and techniques of policy analysis will be discussed. Students will apply techniques to selected policy problems.

**PAD 4103 Politics of Administrative Organization (3).** The role of political processes in relationship to public organizations and the types of intra- and inter-organizational politics which are unique to public organizations. Effects of these political processes upon organizational performance and their role in promoting or thwarting organizational change.

**PAD 4223 Public Sector Budgeting (3).** The theory and practice of various approaches to budgeting, including time-item, performance, PPBS budgeting. Special emphasis on the role of the budget in shaping the program and performance and policy direction of public organizations.

**PAD 4414 Personnel Skills for Administrators (3).** The general nature of public personnel administration; the development of the civil service system; concepts and issues currently applicable at the federal, state, and local levels of government.

**PAD 4432 Administrative Leadership and Behavior (3).** Designed to expose students to a systematically related set of concepts for diagnosing human behavior in organizations; and to establish a positive value for the analysis of problems involving people, structure, environment, task technology, and situational climate.

**PAD 4603 Administrative Law (3).** Surveys the principles of law from the perspective of the public administrator; administrative procedure; procedural due process; delegation of legislative power; regulatory administration; conflict-of-interest statutes, etc.
PAD 4905 Independent Study in Public Administration (1-6). (Normally 3 credit hours) Individual conferences, supervised readings, reports on personal investigations, and similar undertakings. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Program Director required.

PAD 4934 Integrative Seminar in Public Administration (3). The Terminal course of the program. Students will integrate course-work and theory into the analysis of a public policy or public management problem and produce a final seminar paper. Prerequisites: Complete core and Specialization.

PAD 4940 Public Administration Internship (3-6). (Normally 3 credit hours) Supervised work experience in a public or quasi-public organization. Involves a variety of professional and technical job duties depending on the agency. Prerequisites: Completion of required courses in public administration is expected. Consent of internship coordinator and Program Director required.

PAD 4949 Cooperative Education (3). Supervised work experience in public or quasi-public organization. Placement is made through the Office of Cooperative Education. Prerequisites: Completion of required courses in public administration, PAD 3949, and consent of Program Director required.

PAD 4XXXC Community and Citizen Empowerment (3). Seminar is for public management students who want to help citizens learn from one another and strengthen the capacity of citizens to solve problems. Political, public administration, sociological, anthropological, and organizational perspectives will be covered.

URS 3001 Introduction to Urban and Regional Studies (3). An integrated approach to the problems and prospects of metropolitan areas with emphasis on economic, political, social and administrative facets of the urban setting.

URS 3438 Communication Skills for Policy and Management (3). Designed to enable students to develop oral and written skills required to communicate effectively in an organizational and public policy settings.

URS 4004 Introductory Fiscal Analysis for Health and Public Service (3). This course is designed to provide the basics of pricing mechanisms and financial planning techniques applicable to health, nonprofit, and public organizations and enterprises.

URS 4061 Values, Ethics, and Conflict Resolution (3). Theories of value: ethical systems and their influence on administration, behavior and process; the administrator as an ethical actor; value conflict and resolution; the philosophical basis of American thought.

URS 4152 Applied Research Methods for Policy & Management I (3). The intent of this course is to familiarize students with the basic approaches to social research as applied in public and service settings. Emphasis will be placed on techniques for organizing and presenting data for policy and management decision-making. Prerequisite: URS 4112 or equivalent.

URS 4153 Applied Research Methods for Policy & Management II (3) Research design, sampling, critical evaluation, basic research ethics, experiments and quasi experiments, reliability and validity surveys, design-implementation, qualitative and quantitative methods, secondary analysis evaluation and presentation.

URS 4643 Introduction to Management of Public, Nonprofit and Health Organizations (3). Fundamental theories and principles of management in public, nonprofit, and health service organizations.

URS 4931 Current Topics in Urban and Regional Studies (3). In-depth exploration of current, critical topics in the urban arena. Emphasis on multidisciplinary approaches to local issues impacted by increased globalization and competition among cities and regions. May be repeated for credit. Prerequisite: URS 3001.
School of Social Work

Bachelor of Science in Social Work

The program and courses listed in this catalog are under review and changes may be made without advance notice.

Degree Program Hours: 120

The program offers an integrated educational experience that combines the theoretical and the practical. It is designed to prepare the student for generalist practice as a beginning professional social worker, for entrance into a graduate school of social work, and for participation in society as an informed citizen. The curriculum applies a bio-psycho-social model within the context of a social systems framework to understand client systems, address problems and develop intervention.

The four semester program includes a sequence of academic courses as well as field instruction under qualified supervision in social agencies in South Florida.

The program is accredited by the Council on Social Work Education.

Common Prerequisites

POS 2042 American Government
BSC 2023 Human Biology or
PCB 2700 Foundations of Human Physiology
ECO 2013 Macroeconomics or
ECO 2023 Microeconomics or
DEP 2000 Human Growth and Development or
PSY 2020 Introduction to Psychology
SYG 2000 Introduction to Sociology or
SYG 2010 Social Problems
STA 1013 Statistics for Social Services

Lower Division Preparation

The student desiring to major in Social Work must have completed the Associate in Arts degree at a Florida public community college, or equivalent work from an accredited institution.

Required Courses

Before admission to the Social Work program, the student must complete college-level courses in biology (including coverage of Human Biology) and statistics, 12 semester hours in the social and behavioral sciences, which must include one course each in sociology, psychology, economics and American government and eight to ten hours in a foreign language.

To qualify for admission to the program, FIU undergraduates must have met all the lower division requirements including CLAST, completed 60 semester hours, have a minimum cumulative GPA of 2.5 and must be otherwise acceptable into the program.

For additional information regarding the undergraduate social work program of study and degree program requirements, contact the School directly.

Upper Division Program (60)

Required Courses: (45)
SOW 3113 Social Environment and Human Behavior I 3
SOW 3122 Social Environment and Human Behavior II 3
SOW 3232 Social Welfare Policy and Services I 3
SOW 3233 Social Welfare Policy and Services II 3
SOW 3302 Introduction to Social Work 3
SOW 3313 Methods of Social Work Practice I 3
SOW 3403 Social Work Research 3
SOW 4322 Methods of Social Work Practice II 3
SOW 4332 Methods of Social Work Practice III 3
SOW 4511 Field Practicum I 8
SOW 4512 Field Practicum II 8
SOW 4522 Integrative Field Seminar I 1
SOW 4523 Integrative Field Seminar II 1

Electives: With approval of the faculty advisor 15

Remarks: Students should be aware that courses in this program are sequenced. Students must check with their advisors for pre and corequisite courses. A grade of 'C' or higher (a grade of 'C-' is not acceptable) in all courses required for the major is necessary for graduation. A passing grade in field courses is required for continuation in the program. Field courses cannot be repeated.
Minor in Social Welfare

A five-course minor in social welfare is available to baccalaureate degree-seeking students who are interested in careers in the human services field or who wish to study how common human needs are addressed within social welfare programs. The courses that comprise the minor will provide students with the opportunity to relate to the special concerns of our region, including poverty, crime and delinquency, child abuse and neglect, and family instability. The minor is available at University Park and North Campus.

**SOW 3113** The Social Environment and Human Behavior I 3
**SOW 3122** The Social Environment and Human Behavior II 3
**SOW 3232** Social Welfare Policy and Services I 3
**SOW 3233** Social Welfare Policy and Services II 3
**SOW 3302** Introduction to Social Work 1 3
**SOW 3350** Techniques of Interviewing 3
**SOW 3313** Methods of Social Work Practice I 3
**SOW 3801** Self-Awareness and Self-Modification for Practice 3
**SOW 4272** Social Welfare: Cross-Culture Comparisons 3
**SOW 4361** Behavioral Approaches to Social Work Practice 3
**SOW 4654** Child Welfare 3
**SOW 4658** Permanency Planning in Child Welfare Services 3
**SOW 4684** Professional Values in the Human Services 3
**SOW 5109** Crises in the Lives of Women 3
**SOW 5605** Medical Social Work 3
**SOW 5646** Understanding the Processes of Aging 3
**SOW 5665** Animal Assisted Treatment for Social Work 3
**SOW 5689** Social Work Practice with Sexual Problems 3
**SOW 5710** Chemical Dependency and Social Work 3
**SOW 5932** Seminar in Social Work Practice 3
**URS 3005** Service Learning: Social Change and Contemporary Social Issues 3

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**Course Descriptions**

**Definition of Prefixes**

SOW - Social Work.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

**SOW 3113 The Social Environment and Human Behavior I (3).** Study of the socio-cultural factors (including racial, ethnic, and gender and sexual orientation variables) affecting human development and behavior in families, groups, organizations, and communities. Prerequisites: College level Biology (including coverage of Human Biology). (F)

**SOW 3122 The Social Environment and Human Behavior II (3).** Study of individual development, personality, and behavior from a bio-psychological and sociocultural perspective with emphasis on the life cycle, giving attention to racial/ethnic, gender and sexual orientation variables. Prerequisites: SOW 3113 or equivalent, and one college-level course in biology (including coverage of human biology). (S)

**SOW 3232 Social Welfare Policy and Services I (3).** This course considers the major social welfare programs in the United States: how they emerged and developed, and how they operate today. Analysis of financial resources, decision-making processes, and structure of delivery systems serves as a basis for understanding policy assessment. Corequisite: SOW 3302 or equivalent. (F)

**SOW 3233 Social Welfare Policy and Services II (3).** This course examines the frameworks and methods used to analyze social welfare policy and programs. Special attention is paid to current policy issues in the Social Welfare system and strategies that can be used to achieve policy change. Prerequisites: SOW 3232 and SOW 3302 or equivalent. (S)

**SOW 3302 Introduction to Social Work (3).** An overview of the profession of social work within the institution of social welfare. Historical and philosophical development, field of practice, values, and ethics. (F,S)

**SOW 3313 Methods of Social Work Practice I (3).** An overview of social work intervention for beginning generalist practice. Generic values, attitudes, processes, and skills in client-worker relationship-building are discussed and analyzed. Case material is utilized to acquaint students with assessment, modes of intervention, goal setting, and implementation. Prerequisites: SOW 3113, SOW 3232, SOW 3302, or equivalents. Corequisite: SOW 3122. (F,S)

**SOW 3350 Techniques of Interviewing (3).** A competency-based course designed to provide students with basic interviewing skills. Emphasis is on acquisition of interview behavior rather than theory. Audio and videotaping, role-playing, simulations, and micro-counseling training methods will be utilized. Prerequisites: SOW 3113 or permission of the instructor.

**SOW 3403 Social Work Research (3).** Introduction to the basic language, methods, and skills of scientific research for beginning-social work practice. Problem formulation, literature review, definition of variables, sampling, data collection and analysis, and report writing are addressed. Prerequisite: STA 1013 or equivalent. (F,S)

**SOW 3801 Self-Awareness and Self-Modification for Practice (3).** An experience oriented course directed toward helping students become aware of their own interpersonal processes and how these may influence their skill and effectiveness as professional helping persons. Emphasis is on personal learning.

**SOW 4272 Social Welfare: Cross-Culture Comparisons (3).** A combination seminar and lecture course in which students will analyze and compare social welfare policy, problems, and programs in various countries. Prerequisite: SOW 3232 or permission of the instructor.

**SOW 4322 Methods of Social Work Practice II (3).** This generic skills course is designed to provide students with the theories and techniques of social work practice as applied to small groups and families. Prerequisites: SOW 3122, SOW 3233, and SOW 3313, or equivalents. Corequisites: SOW 4511 and SOW 4522. (F,S,SS)

**SOW 4332 Methods of Social Work Practice III (3).** Provides an understanding of planned change at the community level from a social work perspective, as well as strategies and methods utilized in community organization practice. Identification of generalist skills and prevalent models of
groups and community organization in social work practice. Prerequisites: SOW 4322, SOW 4511, SOW 4522. Corequisites: SOW 4512 and SOW 4523.

SOW 4361 Behavioral Approaches to Social Work Practice (3). An introduction to the basics of learning theory as applied to social work settings. A review of principles of cognitive and learning theory applied to generalist practice. Prerequisite: SOW 3113 or permission of the instructor.

SOW 4511 Field Practicum I (8). The first of two field practicum courses providing a supervised practice experience. It provides students with the opportunity to apply knowledge from the classroom to the field setting for the development of beginning generalist social work skills. Majors only. Prerequisites: SOW 3122, SOW 3233, SOW 3302, SOW 3313, and SOW 3403, or equivalents. Corequisites: SOW 4322 and SOW 4522. (F,S,SS)

SOW 4512 Field Practicum II (8). The second of two field practicum courses providing a supervised practice experience. It provides students with an opportunity to apply knowledge from the classroom to the field setting for the development of beginning generalist social work skills. Majors only. Prerequisites: SOW 4511, SOW 4322, and SOW 4522. Corequisites: SOW 4332 and SOW 4523. (F,S,SS)

SOW 4522 Integrative Field Seminar I (1). This course is a one-hour seminar to be taken concurrently with SOW 4511 and SOW 4322. It is designed to analyze the field practicum experience by emphasizing the integration of theory and practice. Majors only. Prerequisites: SOW 3122, SOW 3233, SOW 3302, SOW 3313, and SOW 3403, or equivalents. Corequisites: SOW 4322 and SOW 4511. (F,S,SS)

SOW 4523 Integrative Field Seminar II (1). This course is a one-hour seminar to be taken concurrently with SOW 4512 and SOW 4332. It is designed to analyze the field practicum experience by emphasizing the integration of theory and practice. Majors only. Prerequisites: SOW 4322, SOW 4511, and SOW 4522, or equivalents. Corequisites: SOW 4332 and SOW 4512. (F,S,SS)

SOW 4654 Child Welfare (3). Theories and models of intervention with children and adolescents will be examined within the context of the family. The main focus of the course will be on the special diagnostic and treatment skills necessary for the effective intervention with this client population. Prerequisites: SOW 3122 and SOW 3313 or permission of the instructor.

SOW 4658 Permanency Planning in Child Welfare Services (3). Emphasis on those practice skills needed for implementing permanent plans for children 'at-risk'. Included are intervention strategies for developing contractual arrangements insuring a child's security. Prerequisites: SOW 3122, SOW 3233, SOW 4322, SOW 4554, or permission of the instructor.

SOW 4684 Professional Values in the Human Services (3). This course is designed to assist students in identifying, exploring, and experiencing the values inherent in professionalism, as they are manifested in the various human service professions. Material will be presented in a didactic and experiential manner with emphasis upon student involvement in the value clarification process. Prerequisite: Senior standing.

SOW 4905 Individual Study (1-9). Individually selected program of supervised study related to specific social work issues. Prerequisite: Permission of the instructor. (F,S,SS)

SOW 4932 Current Topics in Social Work (3). This course presents an extensive examination of current issues and problems in social work. Intervenive technology to address these issues will be presented.

SOW 5109 Crises in the Lives of Women (3). An overview of special experiences in the lives of women which might lead women to seek professional assistance. Topics include pregnancy, rape, abortion, childbirth, sex discrimination, climacteric, widowhood. Prerequisite: Senior or graduate standing.

SOW 5354 Crisis Intervention in Social Work Practice (3). This course examines the etiology, structure, theory, and application of crisis intervention in social work practice. It provides assessment criteria for assignment to this form of treatment and techniques for intervention. Prerequisite: Senior or graduate level practice course, or permission of the instructor.

SOW 5605 Medical Social Work (3). Principles of medical social work required in hospitals and communities. Focus on the social worker as part of the health care team, with basic knowledge of medical problems of patients and their families. Prerequisite: Graduate or senior standing.

SOW 5614 Social Work Practice with Persons Affected by Domestic Violence (3). Course prepares students to appropriately identify, assess, and intervene with persons affected by domestic violence utilizing assessment and intervention strategies in practice. Prerequisite: Practicum I/Methods I.

SOW 5621 Social Work with Refugees, Immigrants, and Migrants (3). Provides skills and knowledge responsive to the needs of immigrants and refugees and addresses influences of cultural, ethnic, gender, age, and class differences in acculturation and service delivery. Prerequisite: Practicum I/Methods I.

SOW 5624 Feminist Therapy in Social Work (3). Reviews basic principles of feminist therapy and focuses on the application of feminist therapy in clinical social work practice. Prerequisite: Graduate standing or permission of the instructor.

SOW 5635 School Social Work Practice (3). Designed to assist students in developing knowledge and skills necessary for effective social work practice in school settings. Promotes understanding of social work practice to improve the functioning of children. Prerequisites: SOW 5342 or permission of the instructor.

SOW 5646 Understanding the Process of Aging (3). Study of the physical, psychosocial, and cultural factors affecting human development in late life, from a social work perspective. Prerequisites: Graduate or senior standing and permission of the instructor. (F)

SOW 5665 Animal Assisted Treatment for Social Work (3) An introduction to the human animal bond and animal assisted treatment. There will be illustrations of programs using small animals, horses, and dolphins. Prerequisites: SOW 3313 or SOW 5342 or permission of the instructor.
Certificate Programs

Health Information Management

The purpose of the certificate program is to assist in preparing students to become Certified Coding Specialist (CCS) in order to meet the increasing demands of the health care industry. The program is designed over a one-year period with major emphasis on coding of medical records and other medical information. Upon successful completion of the program students are eligible to take the CCS examination offered by the American Health Information Management Association (AHIMA).

Health Information Coding Certificate

Required Courses (18)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 3531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3226</td>
<td>Basic ICD-9CM Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3236</td>
<td>Advanced ICD-9CM Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3437</td>
<td>Fundamentals of Medical Science I</td>
<td>3</td>
</tr>
<tr>
<td>HIM 3438</td>
<td>Fundamentals of Medical Science II</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4256</td>
<td>CPT-4 Coding and Reimbursement Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete their program of study within three years from the date of admission to the certificate program and receive a 'C' or higher in each course.

Certificate in Urban Affairs

The certificate program requires completion of 15 credit hours of course work. Students are encouraged to take introductory courses in microeconomics and political science before enrolling in the program. All students are required to take a common introductory course — Introduction to Urban and Regional Studies — and two other core courses. Then students fulfill certificate requirements by taking two electives consistent with their academic and career objectives.

Required Course (3)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URS 3001</td>
<td>Introduction to Urban and Regional Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Courses (6)

Students must take two of the following four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 3142</td>
<td>Urban Politics</td>
<td>3</td>
</tr>
<tr>
<td>ECP 3613</td>
<td>Introduction to Urban Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (6)

Students must take two courses from the following list to complete certificate requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>URP 5313</td>
<td>Introduction to Urban Planning and Growth Management</td>
<td>3</td>
</tr>
</tbody>
</table>

College of Business

MAN 4065  Business Ethics  3
MAN 4102  Women and Men in Management  3
MAN 4120  Intergroup Relations in Organization  3
MAN 4701  Business and Society  3
MAN 4731  Modern Business History  3
MAN 4742  Business and the Physical Environment  3

School of Architecture

ARC 4058  Computer Applications in Architecture  3
LAA 5715  Architectural History and Theory  3

Department of Economics

ECP 3123  Economics of Poverty  3
ECP 4143  Economics of Racism  3

College of Education

EDF 3521  Education in History  3
EDF 3723  Schooling in America  3

College of Health

DIE 3317  Dietetics and Community Health  3
HUN 3191  World Nutrition  3

School of Policy and Management

CCJ 3011  The Nature and Causes of Crime  3
CCJ 4130  Police and the Community  3
HSA 3103  Health and Social Service Delivery Systems  3
PAD 3804  Government and Administration of Metropolitan Areas  3
URS 4112  Computer Applications for Urban Services  3
URS 5505  Economic Development and Urban Revitalization  3

Department of Political Science

POS 4074  Latino Politics  3
POS 4122  State Government and Politics  3
POS 4152  Conflict and Change in American Cities  3
POS 4154  Topics in Urban Politics and Policy  3
POS 4314  American Ethnic Politics  3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 3442</td>
<td>Urban Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SYD 3620</td>
<td>Miami: An Urban Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>SYG 2010</td>
<td>Social Problems</td>
<td>3</td>
</tr>
</tbody>
</table>
College of Health and Urban Affairs

Dean
Ronald M. Berkman

Associate Dean
Evelyn B. Enrione

Assistant Dean
Marta M. Medina

Associate Dean
Andrew Miracle

Harlan Sands

Directors, Chairs, and Coordinators:

School of Health
Norma Anderson

Dietetics and Nutrition
Michele Ciccazzo

Health Information Management
Sandra McDonald,

(Interim)

Occupational Therapy
Patricia Scott

Physical Therapy
Leonard Elbaum

Public Health
H. Virginia McCoy

Communication Sciences and Disorders
Lemmietta McNeill

School of Nursing
Divina Grossman

School of Policy Management
Terry Buss

Criminal Justice
Jose Marques

Health Services Administration
Gerry Mills

Public Administration
Keith Revel

School of Social Work
Ray Thomlison

Faculty

Abdel-Moty, Alma, M.S., O.T.R. (Florida International University), Clinical Assistant Professor, Occupational Therapy

Alexander-Delpch, Paula, MSN, RN, ARNP (Florida International University), Assistant Professor and Assistant Director of Admissions and Student Services, Nursing

Anderson, Barbara V., M.S., M.T. (ASCP), S.B.B. (Ohio State University), Coordinator, Academic and Student Affairs

Anderson, Lori, Ed.D., O.T.R. (Nova Southeastern University), Visiting Clinical Assistant Professor

Averch, Harvey, Ph.D. (University of North Carolina), Professor, Public Administration

Bacaris, L. Yvonne, M.S.W.

ACSW, L.C.S.W. (Tulane University), Associate Professor, Social Work and Associate Dean, Undergraduate Studies

Batavia, Andrew, J.D. (Harvard University), Associate Professor, Health Services Administration

Baum, Marianna, Ph.D. (Florida State University), Professor, Dietetics and Nutrition

Beaulaurier, Richard, Ph.D. (University of Southern California), Assistant Professor, Social Work

Bergwall, David, D.B.A. (George Washington University), Associate Professor, Health Services Administration and Associate Dean

Berkman, Ronald M., Ph.D. (Princeton University), Professor, Public Administration and Dean

Blais, Kathleen, Ed.D., RN, (Florida Atlantic University), Associate Professor and Associate Director, Undergraduate Programs, Nursing

Brody, Jacob, A., M.D. Courtesy Professor

Brooten, Dorothy, Ph.D., RN, FAAN (University of Pennsylvania), Professor, Nursing

Brown, Arlene, Ph.D. (Florida International University), Instructor and Coordinator of Broward Programs, Social Work

Brown, Jordana, R.D. (Wayne State University), Clinical Assistant Professor, Dietetics and Nutrition

Buss, Terry, Ph.D. (Ohio State University), Director, School of Policy Management, Public Administration

Byrnes, Joseph P., M.P.A. (Florida International University), Instructor and Associate Director, Criminal Justice

Campa, Adriana, Ph.D. (University of Miami), Research Assistant Professor, Dietetics and Nutrition

Carroll, James, Ph.D., J.D. (Syracuse University), Professor, Public Administration

Castellanos, Victoria Hammer, Ph.D., R.D. (University of California-Davis), Assistant Professor, Dietetics and Nutrition

Cavazos, Roberto, Ph.D. (University of Texas at Dallas), Assistant Professor, Public Administration

Chard, Robin, MSN, RN, ARNP (Barry University), Visiting Assistant Professor, Nursing

Ciccazzo, Michele W., Ph.D., R.D. (Florida State University), Associate Professor and Chair, Dietetics and Nutrition

Cohen, David, Ph.D. (University of California-Berkeley), Professor, Social Work and Ph.D. Coordinator

Cohn, Ellen, Ph.D. (University of Cambridge), Associate Professor, Criminal Justice

Cornely, Helen Z., M.S., P.T. (Nova University), Assistant Professor, Physical Therapy

Culver, Charles M., M.D., Ph.D., Courtesy Professor

Curry, Katharine R., Ph.D., R.D., (Southern Illinois University), Professor Emeritus, Dietetics and Nutrition

D'Alessio, Stewart, Ph.D. (Florida State University), Assistant Professor, Criminal Justice

Darow, William, Ph.D. (Emory University), Professor, Public Health

Dawson, Thomas, J. Jr., M.H.S.A., Courtesy Assistant Professor

Deckard, Gloria, Ph.D. (University of Missouri), Associate Professor, Health Services Administration

De La Rosa, Mario, Ph.D. (Ohio State University), Associate Professor, Social Work

de Leon, Catherine, LCSW (San Jose State University), Student Services Coordinator, Social Work

Dixon, Ziska, Ph.D., R.D. (Texas A&M University) Associate Professor, Dietetics and Nutrition

Dumaine, Marian, Ph.D. (Florida International University), Assistant Professor and Coordinator of Field Education, Social Work

Easton, Penelope S., Ph.D., R.D. (Southern Illinois University), Professor Emeritus, Dietetics and Nutrition

Eitle, David J., Ph.D. (Indiana University), Assistant Professor, Criminal Justice

Elbaum, Leonard, Ed.D., P.T. (Florida International University), Associate Professor and Chair, Physical Therapy

Ellis, Alvaila, MSN, RN, ARNP (Barry University), Instructor, Nursing

Enrione, Evelyn B., Ph.D., R.D. (Purdue University), Associate Professor, Dietetics and Nutrition, and Associate Dean

Fernandez, Jose, R. M.D., Courtesy Assistant Professor

Fingerlutf, Scott, J.D. (Emory University), Visiting Instructor, Criminal Justice

Frank, Howard, Ph.D. (Florida State University), Associate Professor, Public Administration

Freeman, Edward, Ph.D., RN-CS, ARNP (University of...
California-San Francisco), Professor, Nursing
Friedemann, Marie-Luise, Ph.D., RN-CS (University of Michigan), Professor and Associate Director Graduate Programs, Nursing
Galindo-Cioccon, Daisy, Ph.D., RN, CCRN, ARNP (University of Miami), Associate Professor, Nursing
Garcia-Zamor, Jean-Claude, Ph.D. (New York University), Professor, Public Administration
Gasana, Janvier, M.D., Ph.D. (University of Illinois-Chicago), Assistant Professor, Public Health
George, Valerie, Ph.D. (Universite Laval), Assistant Professor, Dietetics and Nutrition
Gil, Andres, Ph.D. (University of Miami), Associate Professor, Social Work
Gillow, Janet, MSW (Wayne State University), Visiting Instructor and Assistant BSSW Field Practicum Coordinator, Social Work
Granville, Mirta, MSN, RN-CS, ARNP (California State University-Long Beach), Clinical Assistant Professor, Nursing
Groom, Jeffry, Ph.D., RN, CRNA, ARNP (Nova-Southeastern University), Clinical Associate Professor, Nursing
Grossman, Divina, Ph.D., RN, ARNP, CS, FAAN (University of Pennsylvania), Director and Professor, Nursing
Gusman, Lori, M.S., P.T. (Florida International University), Clinical Assistant Professor, Physical Therapy
Hamilton, Margaret, DNS, RN (Indiana University), Assistant Professor, Nursing
Haskins, Awilda R., Ed.D., P.T. (Florida International University), Associate Professor, Physical Therapy
Hayden, Mary Helen, M.S.W., ACSW, L.C.S.W. (Florida State University), Assistant Professor and Associate Director Academic Programs, Social Work
Hernandez, Laura, MSN, RN, ARNP (Barry University), Instructor, Nursing
Himburg, Susan P., Ph.D., R.D., FADA (University of Miami), Professor, Dietetics and Nutrition
Huang, Way Way, Ph.D. (University of South Florida), Assistant Professor, Public Health
Hogan, Gerald, MSN, RN, CRNA, ARNP (University of North Carolina), Visiting Clinical Assistant Professor, Nursing
Huffman, Fatma, Ph.D., R.D. (Auburn University), Professor, Dietetics and Nutrition
Jaffe, Amy, M.S., R.D. (Florida International University), Clinical Instructor, Dietetics and Nutrition
Janos, Steve, M.S., P.T., O.C.S. (Northwestern University), Visiting Assistant Professor, Physical Therapy
Jenkins, Sarah, MSN, RN, ARNP (Indiana University), Clinical Instructor, Nursing
Jones, Rosa L., D.S.W., ACSW, L.C.S.W. (Howard University), Associate Professor, Social Work and Vice President, Academic Affairs and Undergraduate Studies
Jones, Sandra, Ph.D., RN, ACNP, ARNP (Barry University), Assistant Professor, Nursing
Jordon, Mary, MPH, RN, ARNP, (University of North Carolina-Chapel Hill), Instructor, Nursing
Kakar, Suman, Ph.D. (University of Florida), Associate Professor, Criminal Justice
Kaplan, Susan H., Ph.D., MBA, O.T.R. (University of Miami), Associate Professor and Chair, Occupational Therapy
Keppeler, William J., Ph.D. (University of Illinois), Professor, Public Health
Kirk-Sanchez, Neva, Ph.D., P.T. (University of Miami), Assistant Professor, Physical Therapy
Knecht, Ann Marie, M.S., O.T.R. (University of Southern California) Clinical Assistant Professor, Occupational Therapy
Kutchler, Joyce, MSN, RN, CNAA (Adelphi University), Visiting Clinical Assistant Professor, Nursing
Lewis, Ralph G., Ed.D. (Harvard University), Associate Professor, Public Administration
Lizarraga, Louises, Ed.D., RN-CS, ARNP (Florida International University), Lecturer, Nursing
Lobar, Sandra, Ph.D., RN-CS, ARNP, (University of Miami), Associate Professor, Nursing
Lowe, John, Ph.D., RN, (University of Miami), Assistant Professor, Nursing
Lu-Guo, Kristina, Ph.D. (Florida International University), Assistant Professor, Health Services Administration
McCoy, H. Virginia, Ph.D. (University of Cincinnati), Professor and Chair, Public Health
McDonough, John, Ed.D., RN, CRNA, ARNP (Drake University), Clinical Professor, Nursing
McNeilly, Lemmetta, Ph.D., C.C.C. (Howard University), Associate Professor and Chair, Communication Sciences and Disorders
Macgowan, Mark J., Ph.D., L.C.S.W. (Barry University), Assistant Professor, Social Work
Magnus, Marcia H., Ph.D. (Cornell University) Associate Professor, Dietetics and Nutrition
Mahecha, Nancy Ruiz, Ph.D., CCC-SLP (City University of New York), Clinical Assistant Professor, Communication Sciences and Disorders
Maleckl, Jean, M.D., MPH, Courtesy Professor
Maring, Joyce R., M.S., P.T. (Boston University), Clinical Assistant Professor, Physical Therapy
Marques, Jose A., M.S.W., ACSW (Barry University), Associate Professor, Criminal Justice
Martinez, Ramiro, Ph.D. (Ohio State University), Associate Professor, Criminal Justice
Mills, Gerald, Ph.D. (Georgia State University), Assistant Professor, Health Services Administration
Mitchell, Welker, Ph.D. (Florida International University), Instructor and Associate Director, Administration, Social Work
Monserrate, Jorge, R.D. (Texas Woman's University), Clinical Assistant Professor, Dietetics and Nutrition
Newman, Frederick, Ph.D. (University of Massachusetts), Professor, Health Services Administration
Nield-Anderson, Leslie, Ph.D., RN-CS (New York University), Associate Professor, Nursing
O'Hara, Peggy, Ph.D. Courtesy Professor
Parchment, Yvonne, Ed.D., RN-CS, CCRN, ARNP (Florida International University), Clinical
Patterson, Joseph, Dr. P.H. (University of California-Los Angeles), Professor Emeritus, Public Health

Patterson, Valerie L., Ph.D. (Florida International University), Instructor, Public Administration

Patton, Richard, M.P.H., R.D. (University of North Carolina), Clinical Assistant Professor, Public Health

Peery, Jace, MSN, RN (University of Alaska), Instructor, Nursing

Phillips, Suzanne, Ed. D., RN, ARNP, (Florida International University), Associate Professor, Nursing

Porter, Luz, Ph. D., RN-CS, ARNP, (New York University), Professor, Nursing

Potocky-Tripodi, Miriam, Ph.D. (University of Kansas), Associate Professor, Social Work

Ramos, Elaine, Ph.D., C.C.C.-S.L.P. (University of Massachusetts), Assistant Professor, Communication Sciences and Disorders

Rassi, Lourdes, Ph.D. (University of Miami), Associate Director and Instructor, School of Policy and Management, Public Administration

Revell, Keith D., Ph.D. (University of Virginia), Assistant Professor, Public Administration

Rice, Christopher, Ph.D., (Washington University), Assistant Professor, Social Work

Richmond, Charlotte, Ph.D., RN (University of Texas Health Science Center-San Antonio), Visiting Assistant Professor, Nursing

Rivers, James E., Ph.D. (University of Kentucky), Associate Professor and Director, Metropolitan Center

Roberts, Lisa, M.S., P.T., G.C.S. (Nova Southeastern University), Visiting Clinical Assistant Professor, Physical Therapy

Rodriguez, Estela, LCSW (Barry University), Visiting Instructor

Rose-St. Prix, Colleen, MHA, P.T. (Florida International University), Associate Professor, Physical Therapy

Rosenbaum, Allan, Ph.D. (University of Chicago), Professor, Public Administration

Ross, Friona, Ph.D., CCC-SLP (Florida State University), Visiting Associate Professor, Communication Sciences and Disorders

Salas, Luis P., J.D. (Wake Forest University), Professor and Coordinator, Criminal Justice

Sari, Nazmi, Ph.D., (Boston University), Assistant Professor, Health Services Administration

Scott, Patricia, Ph.D., MPH, O.T.R. (Florida International University), Associate Professor, Occupational Therapy

Sfakianari, Eleni, M.D., MSPH, (University of Florida), Clinical Associate Professor

Shaffner, Pamela, M.S., O.T.R. (University of Florida), Clinical Associate Professor

Shearn, Regina B., Ph.D. (Florida State University), Associate Professor, Criminal Justice

Smith, Betsy A., Ph.D. (State University of New York at Buffalo), Associate Professor, Social Work

Snow, Robert E., J.D. (Florida State University), Associate Professor, Criminal Justice

Stempel, Robert, Dr. P.H. (University of California-Berkeley), Associate Professor, Public Health

Stolzenberg, Lisa, Ph.D. (Florida State University), Assistant Professor, Criminal Justice

Terry, W. Clinton, Ph.D. (University of California-Santa Barbara), Associate Professor, Criminal Justice

Thomlison, Barbara, Ph.D. (University of Toronto), Professor and Acting Director, Institute for Children and Families At Risk, Social Work

Thomlison, Ray, Ph.D. (University of Toronto), Professor and Director, Social Work

Tomchik, Robert S., M.D., MPH, (University of Illinois), Associate Professor, Social Work

Wagner, Eric F., Ph.D. (University of Pittsburgh), Professor, Social Work, Director, Teen Intervention Project

Weddle, Dian O., Ph.D., R.D., FADA (University of Illinois), Associate Professor, Dietetics and Nutrition

Wellman, Nancy S., Ph.D., R.D., FADA (University of Miami), Professor, Dietetics and Nutrition

White, Vandon E., Ph.D. (Purdue University), Professor, Health Services Administration

Williams, Judith K., Ph.D., Courtesy Associate Professor

Wong, Stephen, Ph.D. (Western Michigan University) Associate Professor, Social Work

Youngblut, JoAnne, Ph.D., RN, FAAN (University of Michigan),
School of Hospitality Management
Programs that combine practical experience with classroom theory to assist the student to gain the understanding, skills, and techniques needed to qualify for job opportunities, and to achieve his or her career goals in the hospitality industry.

With the cooperation of industry executives, the School has created an internship program which literally utilizes the hotels, resorts, restaurants, clubs, airlines, travel agencies, and cruise lines as practice labs for students. The advanced phase of the internship program provides each student a structured training experience normally not available to a student until he or she has entered the industry after graduation.

An Industry Advisory Board - which includes outstanding executives in the lodging, foodservice, and tourism industries - works regularly with the faculty, staff, and students of the School to formulate and update a curriculum that is current, flexible, and related to the needs of the hospitality industry.

The School has been designated a Program of Distinction by the Florida Board of Regents.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review, in order to serve the needs of the University's various publics, and to respond to the mandates of the FIU Board of Trustees and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Locations
The School is located on 200 tropical acres in a resort-like setting at the scenic Biscayne Bay Campus at Biscayne Boulevard (U.S.1) and Northeast 151 Street, North Miami, Florida.

The FIU undergraduate degree program in Hospitality Management is also available in Luzern, Switzerland at the DCT International Hotel and Business Management School.

The FIU undergraduate degree program in Travel and Tourism Management, also is available evenings. Selected courses also are presented via distance learning at the FIU University Park Campus.

The School of Hospitality Management offers its bachelor's degree program in Luzern, Switzerland at the DCT International Hotel and Business Management School. Students may select one of the following options:

1. Spend one (1) semester at FIU-Luzern. (study abroad)
2. Select the International Hospitality Management Track.

Admission
Applicants to the School must submit an Application for Admission to the University and must follow the regular University admission procedures described in the Admissions section of the catalog. Applicants must be eligible for admission to the University before admission to the School. A minimum TOEFL score of 500 is required for international applicants. Students scoring below 550 on the TOEFL may be required to take an intensive course in conversational English offered by the FIU English Language Institute.

Undergraduate Study
Any student who has completed two years of college (60 semester hours) may apply for admission. Full credit will be granted for both Associate in Arts and Associate in Science degrees. One may enroll on either a full-time or a part-time basis. International students must enroll full-time. Students with less than 60 transfer credits must meet freshman admission criteria.

It is not necessary to have been previously enrolled in a hotel, restaurant, or tourism program. The curriculum will provide the specialized professional education to equip the student for a career in hospitality and tourism management. Students with training in liberal arts, business, education, or technology, for example, are qualified to enroll in the program.

The School operates on a Track concept with a core of 36 semester credits required of all students, 15 credits required for the Track and 9 semester credits of hospitality or tourism management electives. Under this system, the student enjoys maximum flexibility in choosing an area of emphasis while being assured of comprehensive coverage of all areas of hospitality management.

A maximum of 60 lower division undergraduate semester credits may be transferred from a junior or community
introduction

There is a requirement that all students complete at least 1000 hours of practical training work experience in the hospitality or tourism industry, in addition to the Advanced Internship of 300 hours. A minimum of 800 hours of the total 1300 hours must be completed while enrolled at FIU. International Track students must complete a minimum of 500 hours while enrolled at FIU. Work experience documentation is required.

Bachelor of Science in Hospitality Management

Degree Program Hours: 120

Lower Division Preparation (60)

To qualify for admission to the program, FIU undergraduates must have met all the lower division core requirements, including CLAST, have completed 60 semester hours, have a minimum 2.0 GPA and must be otherwise acceptable into the program. Transfer students should complete a minimum of 60 semester hours including general education requirements. All general education requirements must be completed prior to graduation from the University.

Core Requirements: 36

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>HFT 3000</td>
<td>Introduction to Hospitality and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3403</td>
<td>Accounting for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4464*</td>
<td>Financial Analysis in the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4474*</td>
<td>Management Accounting for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3423</td>
<td>Hospitality Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>FSS 3230C</td>
<td>Introductory Food Production Management</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4234C</td>
<td>Advanced Food Production Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4802C</td>
<td>Catering Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3503</td>
<td>Hospitality Marketing Strategy</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3603*</td>
<td>Law for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4227</td>
<td>Travel Industry Law</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3210*</td>
<td>Fundamentals of Management in the Hospitality Industry</td>
<td>3</td>
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</tbody>
</table>

Tracks: 15 hours

All hospitality management students must select at least one track from the following five (each is 15 credit hours):

### Hotel/Lodging Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3454</td>
<td>Operations Control</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4293</td>
<td>Hotel Foodservice Operations</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4323</td>
<td>Hospitality Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4413</td>
<td>Lodging Systems and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4945</td>
<td>Advanced Internship (must be track related)</td>
<td>0</td>
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</tbody>
</table>

### Restaurant and Foodservice Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3454</td>
<td>Food and Beverage Control</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3263</td>
<td>Restaurant Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3861</td>
<td>Beverage Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4853</td>
<td>Foodservice, Trends and Challenges</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4809</td>
<td>Management for Foodservice</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4945</td>
<td>Advanced Internship (must be track related)</td>
<td>0</td>
</tr>
</tbody>
</table>

### International Hospitality Management

Students must complete at least 2 consecutive terms at FIU-Luzern in Switzerland and at least 4 months of an industry-training experience in a country other than the student’s country of citizenship. Foreign-language proficiency may be necessary for placement. Some placement assistance is available. See Industry Experience Requirement below.

### Electives: 9 hours

Choose from hospitality courses or
Use to make up general education deficiencies.

### Industry Experience Requirement: 1300 hours

A total of 1300 documented hours of hospitality related practical training work experience is required. This includes 300 hours in HFT 4945 Advanced Internship. A minimum of 800 hours must be completed while enrolled in the degree program at FIU. Except for the International Hospitality Management Track and the Hospitality Management Track, the Advanced Internship must be track-related and approved by an advisor. Work...
experience documentation required. Students with extensive industry experience may apply for a waiver of the 1000 hour work experience and Advanced Internship.

Students completing all their degree requirements at FIU-Luzern may apply for a waiver of up to 800 hours of prior industry experience. If this waiver is approved, and before receiving the degree, students must complete a minimum of 500 additional hours (including 300 hours in HFT 4945 Advanced Internship) while enrolled in the degree program. For the International Hospitality Management track, at least 4 months of the industry experience requirement must be in a country other than the student’s country of citizenship. Students with extensive industry experience may apply for a waiver of the 1000 hour work experience and the Advanced Internship.

**Bachelor of Science in Travel and Tourism Management**

**Degree Program Hours: 120**

**Lower Division Preparation (60)**

To qualify for admission to the program, FIU undergraduates must have met all the lower division core requirements, including CLAST, have completed 60 semester hours, have a minimum 2.0 GPA and must be otherwise acceptable into the program. Transfer students should complete a minimum of 60 semester hours including general education requirements. All general education requirements must be completed prior to graduation from the University.

**Core Requirements: 21**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3403</td>
<td>Accounting for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3210</td>
<td>Fundamentals of Management in the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3423</td>
<td>Hospitality Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4465</td>
<td>Financial Analysis for Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4240</td>
<td>Managing Service Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4221</td>
<td>Human Resources Management for Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4727</td>
<td>Travel Industry Law</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4945</td>
<td>Advanced Internship in Hospitality Management (must be tourism)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives: 9**

Choose from hospitality/tourism courses or use to make up general education deficiencies.

**Electives (3)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HFT 4738</td>
<td>Destinations and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3713</td>
<td>International Travel and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4509</td>
<td>Tourism Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3760</td>
<td>Tourist Transport Systems</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3770</td>
<td>Cruise Line Operations and Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4762</td>
<td>Airline Management</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4874</td>
<td>Role of Food in Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4733</td>
<td>Tour Production and Distribution</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4701</td>
<td>Sustainable Tourism Practices</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4502</td>
<td>Role of Market Research in Visitor Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4465</td>
<td>Tourism Marketing on the Internet</td>
<td>3</td>
</tr>
</tbody>
</table>

**Industry Experience Requirement: 1300 hours**

A total of 1300 documented hours of hospitality related practical training work experience is required. This includes 300 hours in HFT 4945 Advanced Internship. A minimum of 800 hours must be completed while enrolled in the degree program at FIU. The Advanced Internship must be travel or tourism related and approved by an advisor. Work experience documentation required. Students with extensive industry experience may apply for a waiver of the 1000 hour work experience and Advanced Internship.

**Minor in Hotel/Lodging Management (15)**

**Core Requirements (12)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3403</td>
<td>Accounting for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3453</td>
<td>Operations Control</td>
<td>3</td>
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**Electives (3)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 4293</td>
<td>Hotel/Foodservice Oper 3</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4413</td>
<td>Lodging Systems and Procedures</td>
<td>3</td>
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**Electives (3)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HFT 3505</td>
<td>Buyer Behavior of Marketing Elective</td>
<td>3</td>
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<tr>
<td>HFT 3603</td>
<td>Law for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3753</td>
<td>Convention &amp; Trade Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3861</td>
<td>Human Relations in Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4224</td>
<td>Human Resources for Hospital Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3445</td>
<td>Hospitality Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4470</td>
<td>Resort Development</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4545</td>
<td>Leadership Training for Team Building</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4802C</td>
<td>Catering Management</td>
<td>3</td>
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</table>

**Suggested Electives (3)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FSS 4106</td>
<td>Purchasing &amp; Menu Planning</td>
<td>3</td>
</tr>
<tr>
<td>FSS 3242</td>
<td>International Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>FSS 3285</td>
<td>Art in Culinary Arts</td>
<td>3</td>
</tr>
<tr>
<td>FSS 3247</td>
<td>International Baking, Confectionary and Desserts</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4234</td>
<td>Advanced Food Prod 3</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4241</td>
<td>Classical Cuisine</td>
<td>3</td>
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<tr>
<td>HFT 4344C</td>
<td>QSR Management</td>
<td>3</td>
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<tr>
<td>HFT 3277</td>
<td>Club Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3861</td>
<td>Beverage Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3866</td>
<td>Wine Technology, Merchandising, and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4221</td>
<td>Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4224</td>
<td>Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4493</td>
<td>Foodservice Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4545</td>
<td>Leadership Training for Team Building</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4802C</td>
<td>Catering Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4867</td>
<td>Advanced Wine Technology</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4853</td>
<td>Foodservice Trends &amp; Challenges</td>
<td>3</td>
</tr>
<tr>
<td>HFT 6863</td>
<td>World of Wine &amp; Food</td>
<td>3</td>
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</tbody>
</table>
Undergraduate Catalog

School of Hospitality Management 427

Minor in Travel and Tourism Management (15)

Core Requirements (12)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>HFT 3713</td>
<td>International Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3760</td>
<td>Tourist Transport Systems</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4701</td>
<td>Sustainable Tourism Practices¹</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4733</td>
<td>Tour Prod &amp; Dist¹</td>
<td>3</td>
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</table>

Electives (3)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3753</td>
<td>Convention &amp; Trade Show Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3770</td>
<td>Cruise Line Operations and Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3793</td>
<td>Sociology of Leisure</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3866</td>
<td>Wine Technology</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3741</td>
<td>Planning Meetings &amp; Conventions</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4221</td>
<td>Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4224</td>
<td>Human Relations</td>
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<tr>
<td>HFT 4274</td>
<td>Timeshare Management³</td>
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<tr>
<td>HFT 4470</td>
<td>Resort Development¹</td>
<td>3</td>
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<tr>
<td>HFT 4509</td>
<td>Tourism Marketing¹</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4545</td>
<td>Leadership Training for Team Building</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4727</td>
<td>Travel Industry Law</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4735</td>
<td>Destinations and Cultures²</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4785</td>
<td>Casino Oper. Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4708</td>
<td>Coastal &amp; Marine Tourism</td>
<td>3</td>
</tr>
</tbody>
</table>

(Evening program available.)

¹ Prerequisite Required

Minor in Hospitality Studies (15)

Students select 15 credits in hospitality management and create their own minor according to their particular interests. This minor available only to non-hospitality majors.

Certificate Programs

The School has Certificate Programs in Hotel/Lodging Management, Restaurant/Foodservice Management, and Travel and Tourism Management. Each program consists of 12 courses (36 credit hours) and has a core requirement and electives to meet the specific needs of each candidate. The programs are open to all students with a high school education and experience in the industry. The international student candidate must submit a minimum score of 500 on the TOEFL exam or its equivalent and a Declaration and Certification of Finances document. One semester (15 credits). Certificates in Hospitality Administration and Travel and Tourism Administration are also available.

Restaurant/Foodservice Management Certificate (36)

Note: Curriculum may be adjusted to meet the needs of students with extensive related industry experience.

Core Requirements: (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSS 3230C</td>
<td>Introductory Commercial Food Production</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4106</td>
<td>Purchasing and Menu Planning</td>
<td>3</td>
</tr>
<tr>
<td>FOS 4206</td>
<td>Sanitation in Foodservice Oper</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4234C</td>
<td>Advanced Food Production Management¹</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3263</td>
<td>Restaurant Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3403</td>
<td>Accounting for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3454</td>
<td>Food and Beverage Control¹</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3503</td>
<td>Hospitality Marketing Strategy</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3866</td>
<td>Wine Technology</td>
<td>3</td>
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</tbody>
</table>

Electives (9)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSS 3242</td>
<td>International Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>FSS 3285</td>
<td>Art in Culinary Arts</td>
<td>3</td>
</tr>
<tr>
<td>FSS 3247</td>
<td>International Baking, Confectionary and Desserts</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4241</td>
<td>Classical Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4344C</td>
<td>QSR Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3277</td>
<td>Club Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3603</td>
<td>Law for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3861</td>
<td>Beverage Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4221</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4224</td>
<td>Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4545</td>
<td>Leadership Training for Team Building</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4802</td>
<td>Catering Management¹</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4867</td>
<td>Advanced Wine Technology¹</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4493</td>
<td>Foodservice Computer Systems¹</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4853</td>
<td>Foodservice Trends and Challenges</td>
<td>3</td>
</tr>
<tr>
<td>HFT 6863</td>
<td>World of Wines and Food</td>
<td>3</td>
</tr>
</tbody>
</table>

¹Prerequisite required.

School Food Service Management Certificate (18)

Core Requirements: (15)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOS 3207</td>
<td>Food Service Sanitation</td>
<td>1</td>
</tr>
<tr>
<td>HFT 3xxx</td>
<td>Applied Computer Technology in Food Service</td>
<td>1</td>
</tr>
<tr>
<td>HFT 3xxx</td>
<td>Marketing for Food Service Operations</td>
<td>1</td>
</tr>
</tbody>
</table>

¹Prerequisite required.

Track Electives: (3)

(Students select a track elective according to their personal subject matter interest. Managers, not participating in the certificate, may use these tracks as a guide for course selection.)

Nutrition Track:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUN 2201</td>
<td>Principles of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUN 4403</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FOS 3004</td>
<td>Food and the Consumer</td>
<td>3</td>
</tr>
<tr>
<td>FOS 3021</td>
<td>Fundamentals of Food</td>
<td>3</td>
</tr>
<tr>
<td>FOS 3316</td>
<td>Food Service for Institutions</td>
<td>3</td>
</tr>
</tbody>
</table>

Family and Consumer Sciences Track:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBE 3xxx</td>
<td>Food Service and the Child: Partners in Education</td>
<td>3</td>
</tr>
<tr>
<td>FOS 3004</td>
<td>Food and the Consumer</td>
<td>3</td>
</tr>
<tr>
<td>FOS 3021</td>
<td>Fundamentals of Food</td>
<td>3</td>
</tr>
<tr>
<td>HUN 2201</td>
<td>Principles of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HUN 4403</td>
<td>Life Cycle Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4545</td>
<td>Leadership and Teambuilding in the Hospitality Industry</td>
<td>3</td>
</tr>
</tbody>
</table>

Management Track:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3423</td>
<td>Hospitality Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4106</td>
<td>Purchasing and Menu Planning</td>
<td>3</td>
</tr>
<tr>
<td>HFT 3454</td>
<td>Food and Beverage Control</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4493</td>
<td>Foodservice Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4802</td>
<td>Catering Management</td>
<td>3</td>
</tr>
<tr>
<td>HFT 4545</td>
<td>Leadership Training for Teambuilding in the Hospitality Industry</td>
<td>3</td>
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</tbody>
</table>

Food Production Track:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSS 3285</td>
<td>Art in the Culinary Arts</td>
<td>3</td>
</tr>
<tr>
<td>FSS 3247</td>
<td>International Baking, Confectionary and Desserts</td>
<td>3</td>
</tr>
<tr>
<td>FSS 3242C</td>
<td>International Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4241C</td>
<td>Classical Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>FSS 4234C</td>
<td>Advanced Food</td>
<td>3</td>
</tr>
</tbody>
</table>

*The notation XXX in course numbers is used routinely at FIU to indicate that the department is requesting an
School of Hospitality Management

Introduction

Fundamentals available.

3 Total

Catering Introductory

Wine

Accounting Hospitality

Hospitality Hospitality

Sociology Travel

Convention Hospitality

Production, Lodging

hospitality Law

Certificate (15)

Core Requirements: (9)
FSS 3230 Introductory Commercial Food Production 3
HFT 3000 Introduction to Hospitality and Tourism Management 3
HFT 3503 Hospitality Marketing Strategies 3
Hospitality Electives: 6 credits (Choose any FSS, FSS, or HFT courses)

Travel and Tourism Administration Certificate (15)

Core Requirements: (9)
HFT 3000 Introduction to Hospitality and Tourism Management 3
HFT 3503 Hospitality Marketing Strategies 3
HFT 3713 International Travel and Tourism 3
Electives: (6)
HFT 3403 Accounting for the Hospitality Industry 3
HFT 3423 Hospitality Information Technology 3
HFT 3753 Convention and Trade Show Management 3
HFT 3760 Tourist Transport Systems 3
HFT 3770 Cruise Line Operations and Management 3

Electives (9)
HFT 3403 Accounting for the Hospitality Industry 3
HFT 3866 Wine Technology 3
HFT 3741 Planning Meetings & Conventions 3
HFT 4221 Human Resources 3
HFT 4224 Human Relations 3
HFT 4274 Timeshare Mgmt 3
HFT 4470 Resort Development 3
HFT 4504 Internet Marketing 3
HFT 4545 Leadership Training for Team Building 3
HFT 4727 Travel Industry Law 3
HFT 4785 Casino Oper Mgmt 3
HFT 4802C Catering Management 3
(Evening program available). 3
1Prerequisite required

Non-Degree Seeking Students
A number of persons currently employed in the hospitality field may not have the educational requirements to meet degree admission standards, but may be interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. Individuals employed in the field may register as a Non-Degree Seeking Student for a total of 15 semester hours.

Course Descriptions

Definition of Prefixes
FOS - Food Science; FSS - Foodservice Systems; HFT - Hotel, Food, Tourism;
FOS 3207 Foodservice Sanitation (1). Principles and practices involved in safe handling of food products including HACCP procedures. Offers the opportunity for Food Safety Certification.
FOS 4206 Sanitation in Foodservice Operations (3). The causes and prevention of foodborne illness are stressed. Emphasis is placed on the current problems confronting the industry, with recent food developments as they relate to sanitation. The Hazard Analysis Critical Control Point system (HACCP) is included.
FSS 1005 Introduction to the Culinary Arts (3). Principles and skills required in preparing breads, desserts, salads and entrees including theory of food production, functions and ingredients, purchasing, equipment used and sanitation will be covered.
FSS 3230C Introductory Commercial Food Production (3). Study of basic and intermediate commercial food production management skills required in menu design. This knowledge will be applied in the production

 experemtali number. All experimental courses in this program will be variations of existing courses.

Hotel/Lodging Management Certificate (36)

Note: Curriculum may be adjusted to meet the needs of students with extensive related industry experience.

Core Requirements: (27)
HFT 3313 Hospitality Property Management 3
HFT 3403 Accounting for the Hospitality Industry 3
HFT 3453 Operations Control 3
HFT 3503 Hospitality Marketing Strategy 3
HFT 4293 Hotel/Foodservice Operations Management 3
HFT 4323 Hospitality Facilities Management 3
HFT 4413 Lodging Systems and Procedures 3
HFT 4464 Financial Analysis in the Hospitality Industry 3
HFT 4802 Catering Management 3
Electives (9)
HFT 3423 Hospitality Information Technology 3
HFT 3505 Hosp Buyer Behavior 3
HFT 3603 Law for the Hosp Industry 3
HFT 3753 Convention & Trade Show Management 3
HFT 3861 Beverage Management 3
HFT 4221 Human Resources for Hosp Industry 3
HFT 4224 Human Relations in Hosp Industry 3
HFT 4274 Timeshare Mgmt 3
HFT 4470 Resort Development 3
HFT 4504 Internet Marketing 3
HFT 4545 Leadership Training for Team Building 3
HFT 4785 Casino Oper Mgmt 3
1Prerequisite required.

Travel and Tourism Management Certificate (36)

Note: Curriculum may be adjusted to meet the needs of students with extensive related industry experience.

Core Requirements: (27)
HFT 3210 Fundamentals of Mgmt 3
HFT 3423 Hospitality Information Technology 3
HFT 3503 Hospitality Marketing Strategy 3
HFT 3753 Convention & Trade Show Mgmt 3
HFT 3770 Cruise Line Mgmt 3
HFT 4733 Tour Production and Distribution 3
HFT 4735 Destinations & Cultures 3
HFT 4762 Airline Management 3
HFT 4763 Airline Computer Syst 3
Electives (9)
HFT 3403 Accounting for the Hospitality Industry 3
HFT 3866 Wine Technology 3
HFT 3741 Planning Meetings & Conventions 3
HFT 4221 Human Resources 3
HFT 4224 Human Relations 3
HFT 4274 Timeshare Mgmt 3
HFT 4470 Resort Development 3
HFT 4504 Internet Marketing 3
HFT 4545 Leadership Training for Team Building 3
HFT 4727 Travel Industry Law 3
HFT 4785 Casino Oper Mgmt 3
HFT 4802C Catering Management 3
(Evening program available). 3
1Prerequisite required
of appetizers, salads, main course items, and desserts.

FSS 3232C Intermediate Quantity Food Production Techniques (3). An advanced commercial food production course which provides the student with the opportunity to achieve competence and to develop techniques in soups, salads, sauces, and the entrees of meat, poultry, and seafood. Prerequisite: FSS 3230C or equivalent.

FSS 3233C Institutional Foodservice Production (3). Theory and application of commercial and institutional foodservice in an industrial environment, including large scale purchasing procedure, training in large production equipment, on-the-job training. Prerequisites: FOS 3021 or FOS 4041.

FSS 3242C International Cuisine (3). An opportunity for food aficionados to explore modern interpretations of international classic cuisine. Includes lecture, demonstration and preparation of favorite international dishes from restaurant menus around the world. Open to non-majors.

FSS 3247 International Baking, Confectionary and Desserts (3). Provides a professional understanding and foundation of management for food production in a pastry department or industrial baking facility within the foodservice industry. Prerequisites: FSS 3230.

FSS 3285 Art in the Culinary Arts (3). Analysis of art used in the hospitality industry and in the creation of artistic culinary preparations made from edible material used to enhance receptions and buffets. Prerequisites: FSS 3230 Introduction to Comm Food Preparation.

FSS 3311C School Foodservice Production (3). Managerial approach to commercial food production in educational service emphasizing supervisory aspects of planning, production and controls.

FSS 4106 Purchasing and Menu Planning (3). Basic information on sources, grades and standards, criteria for selection, purchasing, and storage for the major foods, including the development of specifications. Consideration of the menu pattern with particular emphasis on costing, pricing, and the work load placed on the production staff. Item analysis and merchandising features are emphasized.

FSS 4234C Advanced Food Production Management (3). A course in advanced food production and service techniques to provide the student with realistic production, service and managerial experience. Students will be rotated through production and service stations and, as managers, will be required to plan menus, supervise preparation and service, handle customer relations, and keep accurate accounting records on the profit and loss phases of the operation. Staffing, merchandising, and cost control procedures are integral parts of the course. Prerequisites: FSS 3230C.

FSS 4241C Classical Cuisine (3). Provides an opportunity for students to expand their knowledge of food preparation into the area of world-respected traditional dishes. The course includes lecture, demonstration, and actual preparation of classical dishes. Open to non-majors.

FSS 4434 Food Facility Layout and Design (3). Defines and explains concepts, principles, and procedures in evaluating and/or developing varied commercial foodservice facilities that will increase profit by reducing investment and operating cost and/or by increasing capacity. Actual installations are intensively reviewed. Current trends in foodservice methodology and technology are studied in detail, and foodservice equipment and distribution economics are observed and evaluated. Prerequisite: HFT 4323.

HFT 1001 Careers in Hospitality Management (3). Orientation to the hospitality industry, its history, magnitude, challenges and career opportunities.

HFT 1750 Introduction to Conference & Convention Planning (3). Introductory course covering career opportunities in the conference/convention business; procedure involved in planning and marketing events. Students will plan and execute a special event.

HFT 1772 Introduction to the Cruiseline Industry (3). Introductory course focusing on the cruise line industry, its relationship to other segments of the hospitality industry. Why cruising is the fastest growing travel industry and career opportunities offered.

HFT 3000 Introduction to Hospitality and Tourism Management (3). A survey course providing an overview of the industry, its history, problems, and general operating procedures. Operating executives from the fields of hotel, restaurant, foodservice, travel, and tourism will be featured periodically.

HFT 3210 Fundamentals of Management in the Hospitality Industry (3). A basic course in general management concepts and practices to acquaint the student with theories and principles of organization, the tools of managerial decision-making, and the management process, with particular reference to the hospitality industry. Case studies are used.

HFT 3263 Restaurant Management (3). Analysis of principal operating problems facing managers in the restaurant industry. Various control systems necessary for profitability and quality are examined.

HFT 3277 Club Operations Management (3). Lecture, discussion, case studies, and field trips specifically designed to expose the future club manager, golf professional, and turf manager to club operations. Introduction to the uniform system of accounts for clubs, annual club studies for operating results, control systems, taxation, budgeting, and management reports.

HFT 3313 Hospitality Property Management (3). The problems of cost and operation of pest control, security, parking, general cleaning and upkeep, laundry, fire prevention, pools, tennis courts, and care of guest rooms and public space, with emphasis on equipment, personnel, and modern innovations. The housekeeping and property management function of the hotel.

HFT 3403 Accounting for the Hospitality Industry (3). Introduction to the principles of accounting as they apply to the hospitality industry. Required for students who have not satisfactorily completed introductory accounting courses. Corequisite: HFT 3423.

HFT 3423 Hospitality Information Technology (3). Applications of information technology in the hospitality industry. Survey of computer tools in the hospitality industry using Virtual Interactive Business Environment Systems (VIBES).Prerequisite: HFT 3444
Survey of Computer Use by Hospitality Managers.

HFT 3444 Survey of Computer Use by Hospitality Managers (3). An introduction to the novice computer user to basic computer skills and computer use in the Hospitality Industry.

HFT 3453 Operations Control (3). Focuses on controlling expenses and revenues of a full-service lodging operation using qualitative and quantitative techniques. Based on using the uniform system of accounts for the lodging industry. Prerequisite: HFT 3403.

HFT 3454 Food and Beverage Control (3). Fundamentals of food and beverage cost controls in the hospitality industry. Prerequisite: HFT 3403.

HFT 3503 Hospitality Marketing Strategy (3). Examines marketing principles, theories and concepts and the use of management principles and techniques of analysis, planning, implementation and control to maximize marketing effectiveness in hospitality organizations. Stresses marketing of services.

HFT 3505 Hospitality Buyer Behavior (3). An analysis of influences on buyer and the process involved in their purchase of hospitality services and the implications for marketing/strategy design and execution. Prerequisite: HFT 3503 or equivalent.

HFT 3521 Hospitality Sales and Marketing Techniques (1). An experiential course that gives students the opportunity to practice and develop personal-selling skills by doing field sales projects for industry partners (may be repeated for up to 3 credits). Prerequisite: Permission of the instructor.

HFT 3603 Law as Related to the Hospitality Industry (3). A basic course in hotel, motel, and restaurant law emphasizing risk management and security. The student is introduced to the fundamental laws, rules, and regulations applicable to the hospitality industry. Case study approach is used to develop an awareness and understanding of the legal problems confronting the manager and executive in policy and decision making.

HFT 3700 Fundamentals of Tourism (3). An introduction to the broad fields of travel and tourism. Among the topics covered are cultural tourism, ecotourism, sociology of tourism, tourism components and supply, tourism development, the economic role of tourism demand, and the marketing of tourism.

HFT 3713 International Travel and Tourism (3). An introduction to the international scope of travel and tourism. A brief analysis of regional framework and specific regions of the world, the interrelationship between human society and the physical environment. Tourism as a factor in economic development and its cultural and sociological factors are explored. An analysis of the international organization of tourism and the facilitation procedures required for its successful implementations are highlighted.

HFT 3741 Planning Meetings and Conventions (3). Introduction to the meeting and convention industry, concentrating on specific and practical research, planning, supervision and control guidelines used by today's Professional Meeting Planner.

HFT 3753 Convention and Trade Show Management (3). A course concentrating on organizing, arranging and operating conventions, trade shows, and expositions. Emphasis is placed on the modes and methods of sales used in booking conventions and trade shows, as well as the division of administrative responsibility in their operation.

HFT 3760 Tourist Transport Systems (3). Explores relationships between tourists and modern transport providers, the impact of societal and environmental issues, the intense service nature and resulting challenges of operations and management.

HFT 3770 Cruise Line Operations & Management (3). Overview of cruise industry: its history and evolutions, operating and marketing procedures, career opportunities, ship profiles, itineraries, and ports of call. Guest speakers and optional field trip included.

HFT 3793 Sociology of Leisure (3). An introduction to the fundamental psychological and sociological concepts and theories as they relate to the motivation behind travel and tourism.

HFT 3861 Beverage Management (3). An introduction to the identification, use and service of wines, spirits, and other alcoholic beverages, with an in-depth analysis of the various elements of beverage operations including purchasing, control, merchandising, and bar management.

HFT 3864 Introduction to Brewing Science (3). A hands-on overview of the scientific principles and operation of craft breweries, and microbrewery technology. Relevant chemical, biological, and physical processes will be examined. Prerequisite: Minimum age 21.

HFT 3864L Introduction to Brewing Science Laboratory (1). A hands-on overview of the scientific principles and operation of craft breweries, commercial brewerries, and microbrewery technology. Relevant chemical, biological, and physical processes will be examined. Prerequisite: Minimum age 21.

HFT 3866 Wine Technology, Merchandising, and Marketing (3). A course in oenology and the fundamentals of wine technology (viticulture and vinification methods). The major types of wine and the factors influencing their quality; principles of sensory evaluation; wine merchandising and marketing. Prerequisite: Minimum age 21.

HFT 3900-3905 Independent Studies (VAR). With permission from the Associate Dean, students may engage in independent research projects and other approved phases of independent study. Prerequisite: 3.0 GPA.

HFT 3941 Internship in Hospitality Management (3). Practical training and experience in all the major phases of hospitality operations and visitor industry. Reports are required. Prerequisite: Permission of the instructor.


HFT 3XXX Applied Computers Technology in Foodservice (1). Introductory computer course including menu graphics; word processing, communications, MS Office, the WWW and computer methods in foodservice.
HFT 3XXX Marketing for Foodservice Operations (1). Examines marketing principles, theories and concepts and the use of management principles and techniques. Stresses marketing for food services.

HFT 4221 Human Resources Management for Hospitality Industry (3). An in-depth study of human resources management in hospitality industry designed to improve and advance student’s skills through understanding of both hourly and management human resource policies, practices and procedures. Prerequisite: HFT 3000.

HFT 4222 Human Resources Development and Training for Hospitality Industry Managers (3). A course designed to provide specific applications of proven training systems and methods for managers in the hospitality industry. The case study method will be used. Prerequisite: HFT 3000. (F,S)

HFT 4224 Human Relations in the Hospitality Industry (3). Designed to improve management skills for effective relationships with hospitality associates and guests. Course includes diversity appreciation, community service and team building.

HFT 4240 Managing Service Organizations (3). In-depth study of management issues relating to service and quality assurance in the service industry. Examines service linkages to marketing operations and human resources. Prerequisite: HFT 3503 and HFT 3210. (Capstone course-seniors only).

HFT 4274 Timeshare Management (3). A comprehensive study of timeshare and vacation ownership, including legislation, legal structures, project budgeting, financing, marketing, sales and property management. Prerequisite: HFT 3000 and HFT 3453.

HFT 4293 Hotel Foodservice Operations Seminar (3). Senior course reviewing current foodservice operations, practices, procedures and problems throughout all areas and facets of the hotel industry.

HFT 4296 Senior Seminar in Hospitality Management (3). Student groups identify and research a major problem of a hospitality enterprise. Discussions will focus on problems and solutions. Final report required. Seniors only.

HFT 4323 Hospitality Facilities Management (3). A comprehensive survey of engineering, maintenance and efficiency control in hotels, restaurants, and institutions. Prerequisite: HFT 3403, HFT 3453.

HFT 4343 Hotel and Restaurant Planning and Design (3). Considers analysis, evaluation, and scheduling of the economic, technical, aesthetic, and merchandising factors involved in the systematic planning, programming and design cycle for hotels and restaurants. Actual hotel and restaurant projects will serve as the basis for discussion and student project work. Prerequisite: HFT 4323.

HFT 4344C QSR Management (3). A study of management in a wide range of Quick Service Food Restaurants, including site criteria, design and layout, operations, marketing techniques and human relations. Prerequisite: HFT 3263

HFT 4413 Lodging Systems and Procedures (3). Detailed study of methods used in serving and tracking guest history and yield management in the hospitality industry. Demonstrates state-of-the-art technology and concepts. Prerequisite: HFT 3423 and HFT 3453.

HFT 4445 Hotel Computer Systems (3). A seminar on computer systems within the hotel industry. An intensive study of a computerized property management system. All computer applications are examined from reservations to the back office through a series of assignments and projects. Prerequisite: HFT 3423.

HFT 4464 Financial Analysis in the Hospitality Industry (3). Facilitates understanding and use of financial analysis in the hospitality industry. Topics include decision-making based on ratio analysis, leverage, financing sources and other financial issues. Prerequisite: HFT 3403.

HFT 4465 Financial Analysis for Tourism (3). Facilities understanding and use of financial analysis. Topics include decision-making based ratio-analysis, leverage, budgeting, financing sources and other financial issues. Prerequisite: HFT 3403.

HFT 4470 Resort Development (3). Analysis of management systems and methods for development of full-service resorts. Comparison of specialized requirements for different types of resorts based on location, climate, activities, and life-style. Considers management responsibilities for feasibility analysis, project development, construction supervision, pre-opening requirements and operations. Prerequisites: HFT 3000 and HFT 3453.

HFT 4474 Management Accounting for the Hospitality Industry (3). Advanced study of the decision-making process involved in the hospitality industry. Emphasis on budgeting, pricing decisions, cost-volume-profit analysis and capital budgeting. Prerequisites: HFT 3403, HFT 4464.

HFT 4479 Foodservice Systems Development (3). Course presenting the systems and procedures to develop a foodservice operation from concept to opening. Prerequisites: HFT 3403, HFT 3263, and HFT 3503.

HFT 4493 Foodservice Computer Systems (3). Study of computer systems in the restaurant and foodservice industry. The student is required to implement a simulated restaurant including personnel files, daily management, menu explosion and analysis, and inventory tracking. A research project will be assigned. Prerequisite: HFT 3423.

HFT 4502 Role of Market Research in Visitor Industry (3). Fundamental research methods for tourism industry: data collection, analysis, write-up, and presentation. Emphasis placed on research implication relevant to management and problem solving. Prerequisite: HFT 3503.

HFT 4503L Hospitality Marketing Management Laboratory (2). An experiential course that allows students within a team to apply ideas, theories and techniques of management to real-world business challenges (may be repeated for up to 6 credits). Prerequisites: HFT 3521.

HFT 4504 Internet Marketing in the Hospitality Industry (3). This course provides working knowledge of the structure of the internet and web site hosting. Current principles of on-line marketing are examined in detail. Prerequisite: HFT 3503 and computer literacy.

HFT 4508 Meetings and Show Markets (3). An in-depth analysis of the characteristics and buying behavior of meetings and show markets and the marketing strategies that can effec-
tively attract and serve them. Prerequisite: HFT 3503.

HFT 4509 Tourism Marketing (3). Comprehensive study of strategies and advanced techniques used in marketing tourism destinations and products. Marketing plan developed. Prerequisite: HFT 3503.

HFT 4512 Hospitality Promotion Strategy (3). This course deals with the practical aspects of designing and implementing a hospitality advertising, public relations, and promotional program. Planning, budgeting, media, and campaign creation will be studied. Prerequisite: HFT 3503.

HFT 4514 Hospitality Marketing Strategy Case Studies (3). A case-method course in strategic marketing analysis and decision making for the hospitality services industry. Students engage in intensive class discussion and write reports on hospitality cases. Prerequisite: HFT 3503.

HFT 4520 Personal Sales Tactics for the Hospitality Industry (3). An investigation of personal selling approaches and procedures used in hospitality sales environments combined with practical application role plays and skill rehearsals. Prerequisite: HFT 3503.

HFT 4524 Sales Management for the Hospitality Industry (3). Explores innovative management techniques used in hospitality sales for effective sales development and revenue generation. Practical application, simulations, research and field study used. Prerequisite: HFT 3503.

HFT 4545 Leadership Training for Team Building (3). Students will learn leadership skills to facilitate team building activities in order to improve group communication, trust, problem-solving, and productivity.

HFT 4604 Employment Law for Hospitality Management (3). Study of employment law including minimum wage, overtime, exempt employees, sexual harassment, discrimination under Civil Rights Act Title VII, ADA, Immigration Act and Family & Medical Leave Act. Prerequisite: HFT 3603.

HFT 4654 Financial and Legal Aspects of Real Estate Development in the Hospitality Industry (3). A study of the legal implications and financing alternatives for development of new properties and conversions. Prerequisite: HFT 3603 and HFT 4464.

HFT 4701 Sustainable Tourism Practices (3). In-depth study of contemporary issues pertaining to tourism based on the natural environment. Explores management strategies suitable for controlling a growing industry. Prerequisite: HFT 3000 or HFT 3700.

HFT 4708 Coastal and Marine Tourism (3). Exploration of positive and negative impacts, management techniques and practices of worldwide coastal and marine environments.

HFT 4711 Cultural/Heritage Tourism (3). Course addresses the significance of cultural resources (such as historical sites, art, and customs), program development, and visitor management to educate the traveller and preserve cultural diversity.

HFT 4714 Implementation and Management of Tourism Projects (3). Practical development, implementation, and management of tourism projects and programs with emphasis on international and developing nation situations. Prerequisites: HFT 3700 or equivalent.

HFT 4727 Travel Industry Law (3). Legal strategies, tactics and principles for the multi-faceted travel industry. Covers applicable statutes, regulations and international agreements. Prerequisite: HFT 3700.

HFT 4733 Tour Production and Distribution (3). Comprehensive study of group and wholesale tour operations. Includes design, supplier negotiations and pricing aspects of tours. Examines marketing, sales and promotional techniques of the tour product. Prerequisite: HFT 3700 or HFT 3000, HFT 3503 or HFT 4509.

HFT 4735 Destination and Cultures (3). In-depth study of geographical elements of worldwide travel and tourism. Introduces contemporary tourism through historical perspective. Analyzes destinations around the world including cruises. Prerequisite: HFT 3700 or equivalent.

HFT 4754 Exposition and Events Management (3). Comprehensive study of strategies for planning, developing and marketing public/trade show events. Prerequisite: HFT 3000, HFT 3503 or equivalent.

HFT 4762 Airline Management (3). An in-depth study of the airline industry as a component of the hospitality tourism industry. Includes operation of various departments costs of operations regulation issues and career opportunities. Prerequisite: HFT 3760.

HFT 4763 Airline Computer Reservation Systems (3). An intensive study of the airline reservation system including computer software, travel documents, tickets, price itineraries as well as world wide travel information retrieval. Prerequisites: HFT 3423 or equivalent.

HFT 4785 Casino Operations Management (3). Topics include: Historical, Legal, Social and Operational aspects of the casino industry; odds assessment, game types, and cash management. Paramutual wagering, casinos, and sports books examined.

HFT 4802 Catering Management (3). A study of the techniques, logistics, and responsibilities involved in the management of on-premise and off-premise, catering companies. Prerequisites: FSS 3230C.

HFT 4803 Non-Commercial and Contract Foodservice Management (3). Management of foodservice operations in noncommercial facilities, self-operated and contract-managed. Includes business and industry, health care, campus dining, correctional and foodservice vending. Prerequisite: HFT 3263.

HFT 4805 Recreational Foodservice Management (3). Methods and systems of managing foodservice operations in recreational facilities, such as stadiums coliseums, arenas, convention centers, amusement parks, pari-mutuels, state and national parks, and other recreational areas. Prerequisite: HFT 3263.

HFT 4809 Management for Foodservice (3). An in-depth study of all segments of the foodservice industry including all major areas of foodservice operations as they relate to various industry segments. Prerequisite: HFT 3263.

HFT 4853 Foodservice Trends and Challenges (3). Advanced level course covers management issues relevant to current trends and challenges facing the foodservice industry. Topics covered will vary as appropriate for current situations. Prerequisites: FSS 3230.
HFT 4867 Advanced Wine Technology (3). Overview of the wine business including: importers, wholesalers, growing grapes, making wine, retailing in supermarkets, restaurants, and liquor stores, analytical tastings, matching wine and food. Prerequisite: HFT 3866; minimum age 21.

HFT 4874 Role of Food Service in Tourism (3). A theoretical approach to the multicultural dimensions of food service and cultures of origin, a practical display and discussion of food production and presentation according to the different types of existing services.

HFT 4936 Hotel Management Seminar (3). A senior course examining the power of partnerships and interrelationships between hotel/resorts and other key segments of the visitor industry (airport, cruiseport, convention center, attractions, sport teams, and stadiums/arenas, etc.) Considers current lodging and visitor industry problems and practices, developing policies and procedures, and implementing them. Prerequisite: HFT 3000.

HFT 4945 Advanced Internship in Hospitality Management (0-3). Structured hospitality practical training work experience involving training program and job rotations not previously performed. Ten week/300 hours minimum. Report and management project required. Prerequisites: Documented completion of 1,000 hospitality related work hours of which at least 500 hours must be completed while enrolled at FIU. Permission of the instructor.

HFT 4XXX Environmental/Quality Management in the Hospitality Industry (3). A multi-dimensional course reviewing global sustainability and environmental movements. This defined impact on the hospitality industry. Integrates courses and opportunities related to sustainability. Prerequisites: HFT 3000.

HFT 4XXX Global Hospitality Business Environment (3). Advanced management seminar examining the role of social, cultural, political, legal, ethical, economic and technological factors in how management is practiced in hospitality firms worldwide. Prerequisite: HFT 3000.
School of Hospitality Management

Dean: Joseph J. West
Associate Dean: Lee C. Dickson
Associate Dean: Adele E. Smith
Associate Dean: Rocco M. Angelo

Faculty

Angelo, Rocco M., M.B.A. (University of Miami), Professor, Management and Associate Dean

Bellucci, Eliot C., J.D. (Boston College), Professor, Law

Bouabdelah, Ahmed, Ph.D. (Laval University), Visiting Assistant Professor, Tourism

Carter, Cheryl M., M.S. (Florida International University), Instructor, Tourism

Cassidy, Patrick J., B.S. (Florida International University), Instructor, Wine Technology

Darby, Percival, M.S. (Florida International University), Assistant Professor, Management

De Chabert-Rios, Jacqueline, Ph.D. (Virginia Polytechnic Institute and State University), Assistant Professor, Food and Beverage Management

Del Risco, M. Nancy, Ph.D. (University of Paris), Visiting Associate Professor, Tourism

Dickson, Lee C., M.B.A. (Babson College), Associate Professor, Management and Marketing and Associate Dean

Escoffier, Marcel R., M.S. (Florida International University), Associate Professor, Management

Goffe, Peter, J.D. (University of Miami), Associate Professor, Marketing and Director, Luzern Program

Hagenmeyer, Fritz G., M.A. (Cornell University), Professor, Hotel Engineering

Hansen, William M., M.S. (Florida International University), Instructor, Club and Catering Management

Ilvento, Charles L., M.B.A., C.P.A. (Cornell University), Professor, Accounting and Finance

Kotschevar, Lendal H., Ph.D. (Columbia University), Professor Emeritus

Latini, Gerald W., Ph.D. (Cornell University), Professor Emeritus

Marshall, Anthony G., J.D. (Syracuse University), Dean Emeritus

Moll, Steven V., M.S. (Florida International University), Associate Professor, Management and

Director, Graduate Program

Moncarz, Elisa S., B.B.A., C.P.A. (Baruch College), Professor, Accounting and Finance

Moran, Michael J., B.S. (Florida International University), Instructor, Food Management

Morgan, William J., Jr., Ph.D. (Cornell University), Professor Emeritus

Newman, Diann R., Ed.D. (Nova Southeastern University), Instructor and Academic Advisor, Human Relations

O’Brien, William G., M.S. (Florida International University), Associate Professor, Information Systems Management

Parker, Alan J., Ph.D. (Columbia University), Professor, Information Systems Management and Director, The Center for Tourism and Technology

Portocarrero, Nestor, B.B.A. C.P.A. (University of Miami), Professor, Accounting and Finance

Probst, Roger D., B.S. (University of New Haven), Instructor, Food Management

Quain, William J., Ph.D. (University of New Orleans), Professor, Management and Marketing

Remington, Joan S., J.D. (Willamette College), Instructor, Tourism and Marketing, and Director, Career Development; Director, The Institute for Hospitality and Tourism Education and Research

Robson, J. Kevin, M.S. (Florida International University), Associate Professor, Food Management

Rosellini, Donald G., J.D. (Northwestern University), Lecturer Management

Rutkowski, Kennard J., B.S. (Florida International University), Instructor, Foodservice Management and Academic Advisor

Smith, Adele E., M.S. (Auburn University), Associate Dean

Talty, David M., B.S. (Florida State University), Instructor, Management

Tanke, Mary L., Ph.D. (Purdue University), Associate Professor, Management

West, Joseph J., Ph.D. (Virginia Polytechnic Institute and State University), Professor, Management and Dean

Zhao, Jinlin, Ph.D. (Virginia Polytechnic Institute and State University), Associate Professor, Management
School of Journalism and Mass Communication
School of Journalism and Mass Communication

J. Arthur Heise, Professor and Dean
Lilian Lodge Kopenhaver, Professor and Associate Dean
William Adams, Associate Professor
Catherine B. Ahles, Associate Professor
Margo Berman, Associate Professor
Cheryl Berry, Associate Professor
Courtney Bosworth, Assistant Professor
Humberto Delgado, Associate Professor
Mario Diament, Associate Professor
Kathleen Donnelly, Assistant Professor
Hugh Gladwin, Director, Institute for Public Opinion Research
Ann Goraczko, Coordinator, Institute for Public Opinion Research
Charles Green, Director, International Media Center
Kevin Hall, Editor-in-Residence
Helioza Hers covitz, Associate Professor
David L. Martinson, Professor
Michael McQueen, Associate Professor and Chairperson, Department of Journalism and Broadcasting
Teresa Ponte, Associate Professor
Patricia B. Rose, Professor and Chairperson, Department of Advertising and Public Relations
Janas Sinclair, Assistant Professor
Don Sneed, Professor
Adriana Stella, Assistant Director, Student Services
Carlos Suris, Director, Student Resource Center
Saul Sztam, Director, Student Services
Lorna Veraldi, Associate Professor
Mercedes Vignon, Assistant Professor
John Virtue, Deputy Director, International Media Center

Bachelor of Science in Communication

Degree Program Hours: 120-124

The School of Journalism and Mass Communication is fully accredited by the Accrediting Council on Education in Journalism and Mass Communications. Only 25 percent of all Schools of Journalism and Mass Communication in the United States are fully accredited.

The aim of the undergraduate communication program at the University is to prepare students who

1. are broadly educated, demonstrated by a grasp of the liberal arts and an appreciation of the value of knowledge and learning, including exploration in some depth of a specific field of knowledge outside communication;

2. can think clearly and objectively about the complexities of the modern world, formulate concepts and effectively communicate this information to targeted audiences;

3. are proficient in the basic skills necessary to meet professional requirements at the entry level in one of the tracks offered by the school. This shall include the ability to write English to professional standards and to master the mechanics of grammar, spelling, and punctuation; and

4. understand the social, ethical, economic, philosophical, and political aspects of the communication professions in a global society.

The School offers majors in advertising, broadcast journalism, print journalism, public relations, television production and television management. Approximately 25 percent of a student's course work is within the school. The purpose is to provide professional career entry skills as well as a broader understanding of communication processes and techniques and their impact on society.

Emphasis is placed on a broad range of knowledge. In keeping with the standards required of nationally-accredited mass communication programs for graduation, all students must take a minimum of 80 semester hours outside the field of journalism and mass communication (actual number will vary by track); a minimum of 65 of those hours must be in the liberal arts.

Additionally, students will select an area of concentration outside the field of communication to pursue in depth. Each advisor will provide recommendations for students with particular career goals.

Typing ability is required of all students.

Lower Division Requirements

Due to the school's accreditation, lower division students are encouraged to enroll in liberal arts courses beyond their general or core curriculum requirements. A list of suggested courses can be obtained in the Office of Student Services. To be admitted into the upper division program, FIU undergraduates and transfer students must complete 60 credits, satisfy all four subsections of the CLAST (College Level Academic Skills Test) requirements, and have a GPA of 2.5 or higher. A waiver of the 2.5 GPA requirement may be granted to a very limited number of applicants upon faculty committee recommendation. Students must score at least a 63 on the School's diagnostic English test to apply for this waiver.

In addition to verifying all requirements for admission, the school evaluates all previous course work to ascertain that the admitted student has met the University's general education or core curriculum requirements as well as those of the School and/or track. Furthermore, we strongly recommend that students complete any deficiencies within the first two semesters upon entering upper division status.

Writing Proficiency

All students in each track are expected to demonstrate proficiency in writing. Students are required to enroll in Writing Strategies for Reaching a Mass Audience (MMC 3104C) and receive a 'C' or higher within the first two semesters of the upper division program. Admission to MMC 3104C requires the passing of a diagnostic English test with a score of 63. Those who do not pass will be referred to the School's own Writing Lab for tutoring and practice as preparation for retaking the test. MMC 3104C is a prerequisite for ADV 3500, ADV 4101, ADV 4103, ADV 4300, ADV 4930, JOU 3113L, JOU 3121, JOU 3320, MMC 4609, PUR 4100, PUR 4101, and PUR 4934.

Transfer Credit

Transfer students entering the program may receive credit, with school approval, for a maximum of six semester hours of communication courses previously taken at another institution with a grade of 'B' or higher in each course. This does not include MMC 3104C, MMC 4200, and skills courses.

Lower Division Students

Freshmen and sophomores planning to enter the school are encouraged to write or visit the school to discuss requirements, career opportunities, and their programs of study.
Acceptable Performance

Only grades of 'C' or higher in School courses, the student's area of concentration, and other courses as required by the School shall apply for graduation. A 'C-' is unacceptable. In order to take courses, students must have completed all prerequisites for the course with a grade of 'C' or better. Any student found not to have completed the specific requirements as stated in the catalog and the course outline will be administratively dropped if the student does not drop the course prior to the end of the drop period. Students who are late or absent on the first day of class may be dropped from high demand courses at the instructor's discretion.

Graduation Policy

To be eligible for graduation, a student must have a minimum 2.75 GPA in all SJMC courses as well as in the outside courses required by the program. The grade point average will be computed separately to maintain the 2.75 standard in both categories.

Advertising

School Requirements (9 credits)
MMC 3003 Mass Communication Orientation 0
MMC 3104C Writing Strategies for Reaching a Mass Audience 3
(MMC 3602 Mass Media and Society 3
MMC 4200 Mass Communication Law and Ethics 3

Track Requirements (26 credits)
ADV 3000 Principles of Advertising 3
PUR 3000 Principles of Public Relations 3
VIC 3002 Visual Design for Media (Effective Spring 2001) 3
RTV 3201 Videography Basics 1
(Effective Spring 2001) 1
ADV 3200 Creative Concepts 3
ADV 3500 Advertising Strategy Research 3

Creative Track (Prereq: Grade of "B" or better in ADV 3200 and Full Admission Into Upper Division Program)
ADV 4101 Advanced Print Concepts 3
(Prereq: ADV 3000, ADV 3200 (with 'B' grade), & MMC 3104C)
AND
ADV 4103 Radio/TV Concepts 3
(Prereq: ADV 3000, ADV 3200 (with 'B' grade), MMC 3104C)

OR

Account Management Track (Prereq: Full Admission Into Upper Division Program)
ADV 4300 Media Planning 3
(Prereq: ADV 3000, MMC 3104C)
AND
One of the following courses: MAN 3025, PAD 3413, or URS 4643 3

MMC 4410 Integrated Communication Campaigns 3
(Prereq: Grammar Test Score of 78, MMC 3104C, PUR 3000, PUR 4101, PUR 4106, ADV 3000, & MMC 4609)
ADV 4930 Advertising Seminar 3
(Prereq: MMC 3104C, ADV 3000, PUR 3000, ADV 3200 or PUR 4100 and Instructor's permission).

One Departmental Elective From the Following: (3 credits)
JOU 3003 Introduction to Journalism 3
MMC 4936 Special Topics (Advertising) 3
MMC 4945 Communication Internship (Prereq: Faculty Advisor's Approval, Senior Standing) 3
PUR 4101 Publications Editing and Design 3
(Prereq: MMC 3104C, PUR 3000, and ADV 4101)
RTV 3000 Principles of Television 3

These are the track core courses which must be completed within the first 18 hours of the program. No student will be allowed to register for other courses until these core courses are completed. MMC 3104C must be completed (with a grade of "C" or higher) within the first two semesters of the upper division program.

Liberal Arts Requirements (9 credits)

Students must select one upper division (3000-4000 level) course from each of the following subject areas: anthropology/sociology, psychology, speech communication* in order to meet the 9 credit upper division requirement. These credits are in addition to the area of concentration.*If 1000/2000 already taken, may take visual arts, political science, or international relations.

Area of Concentration (15 credits)

In consultation with an advisor, students must elect a coherent series of five upper-division courses (15 semester hours) in a non-communication area related to their career emphasis.

Internship

Internships are available for advertising majors who have not yet gained experience in the field. Students who have a 3.0 GPA in School course work and meet the curricular requirements outlined in the internship packet may elect an internship in consultation with their advisors. The internship requires a minimum of 300 hours of work for 3 academic credits.

Journalism

School Requirements (9 credits)
MMC 3003 Mass Communication Orientation 0
MMC 3104C Writing Strategies for Reaching a Mass Audience 3
(Prereq: Grammar Test Score of 63)
MMC 3602 Mass Media and Society 3
MMC 4200 Mass Communication Law and Ethics 3

Track Requirements (28 credits)
JOU 3003 Introduction to Journalism 3
VIC 3002 Visual Design for Media 3
JOU 3113L News Workshop 6
(Prereq: MMC 3104C, JOU 3003)
JOU 3121 Data Base and Public Records Reporting 3
School of Journalism and Mass Communication

JOU 3320 Reporting in a Multi-Ethnic Community
(Prereq: MMC 3104C, JOU 3003)

JOU 3117 Print News Reporting
(Prereq: JOU 3117L, Grammar Test Score of 80 and Full Admission into Upper Division Program)

RTV 3301 Broadcast News Reporting
(Prereq: JOU 3117L and Full Admission into Upper Division Program)

RTV 3201 Videography Basics

JOU 3200 Editing and Makeup
(Prereq: JOU 3117 and Full Admission into Upper Division Program)

JOU 3300* Feature Writing
(Prereq: Grammar Test Score of 85, JOU 3117 & RTV 3301 and Full Admission into Upper Division Program)

RTV 4320 Electronic News Gathering
(Coreq or Prereq: RTV 3301 and Full Admission into Upper Division Program)

RTV 4324** News and Public Affairs Reporting
(Prereq: Grammar Test Score of 85, RTV 3301, & RTV 4320 and Full Admission into Upper Division Program)

JOU 4004 The Business and Ethics of Journalism
(Prereq: JOU 3113L)

JOU 4946 Journalism Internship
(Prereq: JOU 3113L)

**JOU 4341C On-Line Magazine & News Cast can be taken in lieu of JOU 3300 or RTV 4324
(Prereq: Grammar Test Score of 85 and Instructor’s Permission Required)

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<th>Undergraduate Catalog</th>
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| **JOU 4101** Publications Editing and Design
(Prereq: PUR 4100) |
| **JOU 4106** Advanced Public Relations Writing
(Prereq: PUR 4100) |
| **MMC 4410** Integrated Communication Campaigns
(Prereq: Grammar Test Score of 78, MMC 3104C, PUR 3000, PUR 4101, PUR 4106, ADV 3000, & MMC 4609) |

**JOU 4936** Special Topics (Public Relations) 3

**MMC 4945** Communication Internship
(Prereq: Faculty Advisor’s Approval)

**PUR 4934** Public Relations Seminar
(Prereq: MMC 3104C, ADV 3000, PUR 3000, & ADV 3200 or PUR 4100 and Instructor’s permission) 3

**These** are the track core courses which must be completed within the first 18 hours of the program. No student will be allowed to register for other courses until these core courses are completed. MMC 3104C must be completed (with a grade of “C” or higher) within the first two semesters of the upper division program.

**Requirements Outside Journalism** (24 credits)

Students must earn a minimum of 65 semester hours in liberal arts courses, which are the core of a required 87 hours outside the School of Journalism and Mass Communication.

The following courses outside SJMC are required for all journalism students:

- **POS 2042** American Government 3
- **PHI 2103** Critical Thinking 3
- **Sociology 3000/4000 level course** 3
- **ECO 3041** Consumer Economics 3
- **ECP 3613** Urban Economics 3
- **AMH 3000/4000 level course** 3
- **Another History Course 3000/4000 level course** 3
- **Two AML, EML, LIT Literature 3000/4000 level courses** 6

*Students in FIU Honors College often take courses that can substitute for these requirements. Please see your academic advisor or the department chair for guidance before taking these courses.

**Public Relations**

**School Requirements** (9 credits)

- **MMC 3003** Mass Communication Orientation
- **MMC 3104C** Writing Strategies for Reaching a Mass Audience
(Prereq: Grammar Test Score of 63)
- **MMC 3602** Mass Media and Society
- **MMC 4200** Mass Communication Law and Ethics

**Track Requirements** (26 credits)

- **PUR 3000** Principles of Public Relations
- **ADV 3000** Principles of Advertising
- **VIC 3002** Visual Design for Media
- **RTV 3201** Videography Basics
- **ADV 3200** Creative Concepts
- **MMC 4609** Public Opinion and the Mass Media
(Prereq: MMC 3104C, PUR 3000)
- **PUR 4100** Writing for Public Relations

**(Prereq: PUR 3000, MMC 3104C & Full Admission Into Upper Division Program)

**PUR 4101** Publications Editing and Design
(Prereq: PUR 4100)

**PUR 4106** Advanced Public Relations Writing
(Prereq: PUR 4100)

**MMC 4410** Integrated Communication Campaigns
(Prereq: Grammar Test Score of 78, MMC 3104C, PUR 3000, PUR 4101, PUR 4106, ADV 3000, & MMC 4609)

**One Departmental Elective from the Following:** (3 credits)

**MMC 4936** Special Topics (Public Relations) 3

**MMC 4945** Communication Internship
(Prereq: Faculty Advisor’s Approval)

**PUR 4934** Public Relations Seminar
(Prereq: MMC 3104C, ADV 3000, PUR 3000, & ADV 3200 or PUR 4100 and Instructor’s permission) 3

These are the track core courses which must be completed within the first 18 hours of the program. No student will be allowed to register for other courses until these core courses are completed. MMC 3104C must be completed (with a grade of “C” or higher) within the first two semesters of the upper division program.

**Liberal Arts Requirements** (9 credits)

Students must select one course from each of the following subject areas: economics or sociology, psychology, speech communications* in order to meet the 9 credit upper division requirement. These credits are in addition to the area of concentration.

*If 1000/2000 already taken, may take political science/international relations course/visual arts.

**Area of Concentration** (15 credits)

In consultation with an advisor, the student must take 15 upper division semester hours in one area of emphasis outside the School. These courses should relate to the student’s career expectations. Several traditional areas of specialization are as follows:
Governmental public communication (public administration, international relations, criminal justice, or political science)

Corporate public relations (marketing or management)

Non-profit public relations (social sciences or marketing)

Public relations for travel and tourism (hospitality management)

These groupings do not preclude other specialized areas of interest, including modern languages and the certificate programs available in the College of Arts and Sciences.

**Internship**

The internship is important for public relations majors who have not yet gained experience in the field. Students who have a 3.0 GPA in School course work and meet the curriculum requirements outlined in the internship packet may select an internship in consultation with their advisors. The internship requires a minimum of 300 hours of work for three academic credits.

**Television Production**

**School Requirements (9 credits)**

Students in the Television Track may choose Production or Management. In addition to the individual track requirements, students must take the following school requirements:

**MMC 3003** Mass Communication Orientation<br>**MMC 3104C** Writing Strategies for Reaching a Mass Audience (Prereq: Grammar Test Score of 63)<br>**MMC 3602** Mass Media and Society 1<br>**MMC 4200** Mass Communication Law and Ethics

**Track Requirements (27 credits)**

**RTV 3000** Principles of Television 3<br>**RTV 3262** Video Field Production (Fall Semester) 3<br>**RTV 3260** Video Studio Production (Fall Semester) 3<br>**RTV 3207** Video Directing (Prereq: RTV 3200) 3<br>**RTV 3263** Video Post Production (Prereq: RTV 3207, RTV 3262 & Full Admission Into Upper Division Program) 3<br>**RTV 4101** Advanced Writing for Television (Prereq: MMC 3104C) 3

**Liberal Arts Requirements (12 credits)**

(Both Television Tracks)

Students must select a total of 12 semester hours in the following subject areas: art (photography), art history, computer science, English, history, political science, philosophy, sociology or anthropology in order to meet the upper division liberal arts requirements. These credits are in addition to the area of concentration.

**Internship or Professional Expansion of Knowledge (PEK)**

The internship is important for television majors who have not yet gained experience in the field. Therefore, students who have a 3.0 GPA in School course work and meet the curriculum requirements outlined in the internship packet or PEK packets may select the internship or PEK in consultation with their advisor. Either requires a minimum of 300 hours of work for 3 academic credits.

**Minor in Advertising (18 credits)**

Students are required to take the following four courses:

**MMC 3104C** Writing Strategies for Reaching a Mass Audience 3<br>**ADV 3000** Principles of Advertising 3<br>**ADV 3200** Creative Concepts 3<br>**MMC 4410** Integrated Communications Campaign 3

They must also choose either of the following two courses for a total of 18 semester hours.

**Group I:**

**ADV 4101** Advanced Print Concepts 3<br>**ADV 4103** Radio/TV Concepts 3

**Group II:**

**ADV 3500** Advertising Strategy Research 3<br>**ADV 4300** Media Planning 3

**Minor in Journalism (19 credits)**

**MMC 3104C** Writing Strategies for Reaching a Mass Audience 3<br>**JOU 3113L** Newsroom 6<br>**JOU 3003** Introduction to Journalism 3<br>**JOU 3320** Reporting in a Multi-Ethnic Community 1<br>**JOU 3117** Print News Reporting 3<br>**RTV 3301** Broadcast News Reporting 3
Minor in Public Relations (18 credits)

Required Courses
MMC 3104C Writing Strategies for Reaching a Mass Audience 3
PUR 3000 Principles of Public Relations 3
PUR 4100 Writing for Public Relations 3
PUR 4106 Advanced PR Writing 3
PUR 4101 Publications Editing and Design 3
MMC 4410 Integrated Communication Campaigns 3

Minor in Mass Communication (15 credits)

MMG 3602 Mass Media and Society 3
MMC 4200 Mass Communication Law and Ethics 3
Students may select two courses from those listed below:
PUR 3000 Principles of Public Relations 3
or
ADV 3000 Principles of Advertising 3
or
RTV 3000 Principles of Television 3
or
JOU 3003 Introduction to Journalism 3

One three-credit elective course at the 3000 level or higher in the school. (May include one of the two remaining courses above.)

Minor in Television

Required Courses: (15)
MMC 3602 Mass Media and Society 3
RTV 3000 Principles of Television 3
RTV 3200 Studio Production 3
RTV 3500 Programming Theory (Prereq: RTV 3000) 3
or
RTV 4101 Advanced Writing for TV 3
MMC 3250 Media Management 3

Certificate Programs

Mass Communication (18 credits)
MMC 3602 Mass Media and Society 3
MMC 4200 Mass Communication Law and Ethics 3

Select two from the following courses:
PUR 3000 3 ADV 3000 3
RTV 3000 3 JOU 3003 3
Two additional courses from the SMJC (6 credits)

Media Management (15 credits)

This 15 credit certificate will provide basic information about the Television Management field and provide the tools necessary to prepare students for entry level management positions.

Required Courses
RTV 3000 Principles of Television 3
MMC 3250 Media Management 3
RTV 3500 Programming Theory 3
MMC 4262 New Technologies 3
MMC 4200 Mass Communication Law and Ethics 3

Spanish Language Journalism (15 credits)
The objective of this graduate level certificate program in Spanish Language Journalism is to develop skills and techniques that will allow working journalists to be more responsive to the demands of their profession as well as to become more familiar with Spanish-language journalism in general. The focus of the program will be on reading, writing, and thinking. All courses will be taught in Spanish. Some courses may be offered off campus.

Interested students should contact the department for additional information and course requirements.

Student Media Advising (15 credits)
This graduate level certificate program is designed primarily for journalism teachers and for student media advisers on all levels and for those aspiring to the profession. This program will satisfy the requirements of the certification, re-certification or incentive credits for current public school teachers in the field.

The Certificate in Student Media Advising requires 15 credits to be taken as follows:

Required Courses:
JOU 5806 Student Publications Supervision
MMC 5207 Ethical and Legal Foundations of the Student Press
VIC 5205 Trends in Graphics and Design

Elective Courses
Students must take two of the following:
RTV 5936 Seminar in New Communication Technologies
MMC 6402 Theories of Mass Communication
MMC 6635 Contemporary Issues in Mass Communication
PUR 4101 Publications Editing and

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MMC 5207 Ethical and Legal Foundations of the Student Press
VIC 5205 Trends in Graphics and Design

Elective Courses
Students must take two of the following:
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MMC 6402 Theories of Mass Communication
MMC 6635 Contemporary Issues in Mass Communication
PUR 4101 Publications Editing and
Undergraduate Catalog

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Prerequisite: ADV 3000, MMC 3104C and full admission into upper division program.

ADV 4930 Advertising Seminar (3). A variable topics seminar dealing with one selected area of advertising, such as international advertising, media sales, advertising in the service sector. Prerequisites: MMC 3104C, ADV 3000, PUR 3000 & PUR 4100 or ADV 3200 and Permission of the Instructor.

JOU 3003 Introduction to Journalism (3). Study and analytical discussion of the historical of journalism in America, including its current practice, through intensive readings of primary historical sources as well as broad, direct exposure to current news sources. Co-requisite: VIC 3xxx Introduction to Visual Communication.

JOU 3113L News Workshop (6). The course teaches the fundamentals of reporting news stories and of writing news stories. The course meets twice a week. One session will focus on reporting, the other on writing. The course covers both print and broadcast media. Prerequisites: MMC 3104C and JOU 3003. (Supplies fee assessed).

JOU 3117 News Reporting (3). Instruction in learning to ask relevant, appropriate and substantial questions for both print and broadcast on online media. Prerequisite: JOU 3113L and full admission into upper division program. (Supplies fee assessed)

JOU 3121 Database and Public Records Reporting (3). In this course students will discover, explore, examine and use computerized databases to develop news stories. Students discover ways to use computers and compute software to analyze public records. The course will focus on creating, analyzing and interpreting databases; using the Internet, and on writing news stories using Computer Assisted Reporting techniques. Students learn about the rights they have to examine public records, how to use those rights and what kind of arguments students can expect from public officials who try to keep public records private. Prerequisite: Successful passage of the Math portion of the CLAST exam.

JOU 3200 Editing and Makeup (3). Editing news copy for accuracy, brevity, and clarity, including practice with AP style, copy and proofreading marks. Learning the role and function of the news editor and news producer. Design and layout of newspaper pages, including working with art, photographs and headlines, and editing and fitting news copy. Prerequisite: JOU 3117, RTV 3301 and full admission into the upper division program.

JOU 3300 Feature Writing (3). Writing the feature story: human interest, trends, personality profiles, sidebars, backgrounders, color. Prerequisite: JOU 3113L, JOU 3117, RTV 3301 and full admission into the upper division program.

JOU 3312 Specialty Journalism (1). Seminars in such topics as investigative, political, business, sports, or minority reporting, and editorials and commentary. Must be taken three times. Prerequisite: JOU 3003.

JOU 3320 Reporting in a Multi-Ethnic Community (1). Learning the political, social and economic backgrounds of ethnic communities in an urban area to improve the reporting of news from those populations and neighborhoods. Corequisite: JOU 3113L.

JOU 4004 Business, Ethics and Journalism (1-3). Examination and discussion of case studies involving ethical dilemmas caused by pressures from the business side of print and broadcast journalism on working reporters and editors. Real world problems are brought into the classroom discussion to prepare students for the kind of problems they will almost certainly face in their news careers.

JOU 4101 In-Depth Reporting (3). Advanced instruction and practice in researching, reporting and writing a variety of complex news stories. Prerequisite: JOU 3113L, JOU 3117, RTV 3301. (Supplies fee assessed)

JOU 4208 Magazine Editing and Production (3). Develops skills in writing, editing and design, and a knowledge of planning, typography and graphics. Attention is given to developing formats, selecting copy, photos, graphics, and type.

JOU 4341C On-line News (3). Producing an on-line news magazine. Under the direction of instructors acting as executive editor for print, and executive producer for broadcast.

students will conceive, report, write, videotape, assign, select, headline and lay out all copy and video for a lab-magazine website. Students will fill all newswire positions necessary to produce a newscast and an electronic print news publication. Prerequisite: By invitation of instructor.

JOU 4946 Journalism Internship (0-3). On-the-job learning in news radio or TV newsrooms or wire service and magazines. Prerequisite: Consent of instructor. Course may be repeated, but no more than 3 credits will be awarded. Corequisite: RTV 4323 or RTV 4324.

JOU 5806 Student Media Advising (3). Designed to assist teachers and advisers of journalism at the high school and junior college level, this course emphasizes the technical aspects of producing student newspapers, yearbooks, and magazines, as well as the legal and ethical considerations facing today's adviser. In addition, attention is given to matters pertaining to curriculum and methodology for effective journalistic instruction.

MMC 3003 Mass Communication Orientation (0). A course designed to provide the students with a comprehensive overview of academic policies, procedures and requirements for matriculation and graduation from the School of Journalism and Mass Communication.

MMC 3104C Writing Strategies for Reaching a Mass Audience (3). An advanced writing course that applies creative thinking techniques, especially in the generation of ideas for mass media presentation, as well as the careful and compelling use of language. Prerequisite: Grammar test.

MMC 3250 Media Management (3). Reviews the organization of radio, TV, magazine, and newspaper enterprises.

MMC 3602 Mass Media and Society (3). Investigates the role of mass media and their impact on people's lives. Using all forms of media, examines the interrelationship of major communication professions and society.

MMC 4200 Mass Communication Law and Ethics (3). An in-depth examination of legal and ethical issues confronting professional communicators. Focus on the responsibilities and rights of communicators and the implications for a society entering the 21st century.
MMC 4253 Advanced Media Management (3). A senior level course dealing with case studies of media organizations. Prerequisite: MMC 3250.

MMC 4262 New Technologies of Communication (3). The principal emphasis is upon new technologies in the industry. Prerequisite: RTV 3000.

MMC 4302 Comparative Systems of Mass Communication (3). An examination of various national and international mass communication systems and the elements which determine the type of systems currently operating throughout the world. Prerequisite: RTV 3000.

MMC 4410 Integrated Communications Campaigns (3). Advanced course emphasizing all aspects of developing fully integrated advertising. Prerequisites: All tracks and school requirements except seminar and/or internship. Must also have a score of 78 on the MMC 3104 writing test.

MMC 4500 Media History (3). Development of American media from beginnings in Europe to present day; freedom of the press and its relationships to economic, political, and social trends in society.

MMC 4609 Public Opinion and the Mass Media (3). Study of the communication process, persuasion, and attitude change. Explores the methods of measuring, analyzing, changing, and/or maintaining the public opinion for socially acceptable causes. Prerequisite: MMC 3104C ADV 3000 or PUR 3000.

MMC 4613 Effects of the Mass Media (3). Reviews the effects of the media, with special attention to children, minorities, terrorism, and Third World countries.

MMC 4661 Race, Multiculturalism and the Mass Media (3). A critical review of the role of the mass media as it relates to ethnic, religious, and social minorities in a pluralistic society.

MMC 4905 Independent Study (1-3). Specialized intensive study in an area of special interest to the student. Consent of instructor is required. (Limit of three credits)

MMC 4936 Special Topics (VAR). Intensive study for groups of students of a particular topic or limited number of topics, not otherwise offered in the curriculum. Consent of instructor or dean is required.

MMC 4940 Media Practicum (0-3). Structured field-work experience in media environment.

MMC 4945 Communication Internship (3). On-the-job learning in activity at selected and approved organizations. Will include newspapers, magazines, radio and TV stations, agencies, and non-profit organizations. Prerequisite: Consent of advisor.

MMC 5207 Ethical and Legal Foundations of the Student Press (3). Examines ethical and legal foundations underlying the operation of the student press on American campuses, stressing both rights and responsibilities and how to organize publications to protect both.

MMC 5440 Applied Research Methods in the Mass Media (3). An advanced course in the acquisition and use of secondary data, including media data, as well as the design, execution and utilization of research studies. Students will conduct an original proprietary study. Prerequisite: STA 1013 or equivalent.

MMC 5932 Special Topics Seminar (3). A variable topic seminar dealing with issues of interest to the community. Examples are rights of high school journalists, cable TV, the use of mini-computers in creative communication.


PUR 4100 Writing for Public Relations (3). Introduction to preparation of news releases, public service announcements, backgrounders and newsletter copy. Exposure to media relations and non-profit and corporate advertising. Prerequisites: PUR 3000, MMC 3104C, and full admission into upper division program. (Supplies fee assessed)

PUR 4101 Publications Editing and Design (3). Design, editing, and production of materials in the area of trade, corporate, organizational, and technical press, with special attention given to typography, style and production of tabloid and magazine format publications. Prerequisite: PUR 3000, PUR 4100, or consent of instructor. (Supplies fee assessed)

PUR 4106 Advanced PR Writing (3). Further development of writing skills including preparation of feature stories, new media kits and materials for special events. Exposure to target audience selection for news media placement. Prerequisite: PUR 4100, MMC 3101C, PUR 3000. (Supplies fee assessed)

PUR 4934 Public Relations Seminar (3). Open to public relations-emphasis students only. A course designed to allow the advanced public relations student to pursue a specially selected, specific area of public relations (i.e., political, medical, financial, government, corporate, educational, etc.) through in-depth study under a tutorial style of instruction and guidance. Prerequisites: MMC 3104C, ADV 3000, PUR 3000 & PUR 4100 or ADV 3200 and instructor's permission.

PUR 5406 Multi-Cultural Communications (3). Explores the multi-cultural dimensions of communications with diverse audiences both inter-nationally and within the United States. Prerequisite: Permission of the instructor.

PUR 5602 Integrated Communications Proseminar (0). Lectures/discussion by distinguished educators/industry professionals and graduate faculty on topics designed to introduce participants to the various components and applications of Integrated Communications: Advertising & Public Relations (ICAP) graduate study.

PUR 5607 Advertising and Public Relations Management (3). Operations and objectives of integrated advertising and public relations activities and programs utilizing case studies on budgeting, ethics, media planning/relations, promotions and direct marketing. Prerequisite: PUR 5806.

PUR 5806 Integrated Communications: Account Planning (3). Advanced study in developing, planning and evaluating strategic integrated communications programs and campaigns. Prerequisite: Permission of the instructor.

RTV 3000 Principles of Television (3). Review of broadcasting industries, organization, history, and practices.
RTV 3200 Video Studio Production (3). Use of television studio equipment and techniques in production of programs, newscasts, documentaries, commercials, training and video productions. Introduction to basic video directing.

RTV 3201 Videography Basics (1). An introductory course on the principles and practices of videography. Intended for students not majoring in television production.

RTV 3207 Video Directing (3). Studio directing/technical directing and related techniques used in television entertainment shows, commercials, newscasts, documentaries, training and corporate video productions. Students are expected to solve media-related problems during actual productions. Prerequisite: RTV 3200.

RTV 3262 Video Field Production (3). Use of ENG/EFP equipment and techniques in production of programs, news, documentaries, music videos, commercials, training and video productions on location. Emphasis on single camera techniques and editing. (Supplies fee assessed)

RTV 3263 Video Post Production (3). Advanced post production techniques using A & B rolls, complex audio mixes and their preparation and execution. Prerequisite: RTV 3262, RTV 3207, and full admission into upper division program. (Supplies fee assessed)

RTV 3301 Broadcast News Reporting (3). Instruction and practice in news writing, reporting and interviewing for broadcast media. This course meets in an accelerated manner in the first half of the semester to be followed by Electronic News Gathering RTV 4320 for those students wishing to pursue additional training in broadcast journalism. Prerequisite: News Workshop JOU 3113 and full admission into upper division program.

RTV 3500 Programming Theory (3). Introductory course in programming, ratings, and audience analysis. Prerequisite: RTV 3000 and full admission into upper division program.

RTV 3803 Studio Management (3). Students are introduced to basic studio language and procedures and will do research about duties of the producer, budgets and related topics.

RTV 3XXX Videography Basics (1). An introductory course on the principles and practices of videography. Intended for students not majoring in television production.

RTV 4101 Advanced Writing for TV (3). Includes writing for news reporting as well as anchoring. Documentaries, commercials and public service spots. Public affairs programs. Intros, Outs and bridges for a variety of programs. Prerequisite: MMC 3104C.

RTV 4206 Advanced Video Production Workshop (3). Advanced course where students will be expected to use all the knowledge about television production received in the tract. Students produce and perhaps direct programs for broadcast/cablecast. Prerequisite: RTV 4800. (Supplies fee assessed)

RTV 4320 Electronic News Gathering (3). An introduction to the real world of television news. This course is designed to teach students to plan, write and execute electronic news productions from concept to finished product. This course meets in an accelerated manner in the second half of the semester following Broadcast News Reporting RTV 3301. Prerequisite: RTV 3301 Broadcast News Reporting and RTV 3201 Videography Basics and full admission into upper division program.

RTV 4322 Documentary Production (3). Advanced laboratory and field work to produce, report, write and edit documentaries for television. Prerequisite: JOU 3117, RTV 3301. (Supplies fee assessed)

RTV 4324 News and Public Affairs Reporting (3). Reporting, writing, producing and editing hard and feature news stories and mini-documentaries for television. Includes practice in reporting on-air for broadcast. Includes practice in being a reporter, producer or anchor. Prerequisite: JOU 3117, RTV 3301 and full admission into upper division program. (Supplies fee assessed)

RTV 4800 Station Operation (3). Advanced production course. Students learn production and operation for a television station. Students will be assigned programs to produce for broadcast/cablecast. Prerequisite: RTV 4101, RTV 3263, and RTV 3207.

RTV 5806 Telecommunication Management Structures (3). Intensive study of telecommunication management problems, theory of same, solutions of same through practical application and examination of case studies. Prerequisite: Graduate standing.

RTV 5935 Seminar in International Comparative Broadcasting Systems (3). Introduction to international telecommunication systems with special emphasis on broadcasting. Comparison with other countries. Prerequisite: Graduate standing or permission of the instructor.

RTV 5936 Seminar in New Mass Communication Technologies (3). Discussion of new communication technologies and their influence on the society. Prerequisite: Graduate standing or permission of the instructor.

VIC 3002 Visual Design for Media (1-3). An exploration of messages combining words and visual images and their relation to content in print, broadcast, and on-line media.
School of Journalism and Mass Communication

Dean J. Arthur Heise
Associate Dean Lillian Lodge Kopenhaver

Chairperson, Advertising and Public Relations Patricia Rose
Chairperson, Journalism and Broadcasting Michael McQueen

Faculty

Adams, William, M.A. (University of Wisconsin), Associate Professor, Journalism and Mass Communication

Ahles, Catherine, M.B.A. (Michigan State University), Associate Professor, Journalism and Mass Communication

Berman, Margo, M.M. (University of Miami), Associate Professor, Journalism and Mass Communication

Berry, Cheryl, M.S. (Northwestern University), Visiting Associate Professor, Journalism and Mass Communication

Bosworth, Courtney, Ph.D. (University of Georgia), Assistant Professor, Journalism and Mass Communication

Delgado, Humberto, M.A. (Goddard College), Associate Professor, Journalism and Mass Communication

Diament, Mario, M.A. (Antioch College), Associate Professor, Journalism and Mass Communication

Donnelly, Kathleen, Ph.D. (Dublin City University), Assistant Professor, Journalism and Mass Communication

Gladwin, Hugh, Ph.D. (Stanford University), Director, Institute for Public Opinion Research

Goraczko, Ann, M.S. (Florida International University), Coordinator, Institute for Public Opinion Research

Green, Charles, B.A. (Christian International University), Director, International Media Center

Hall, Kevin, B.A. (Fordham University), Editor-in-Residence, Journalism and Mass Communication

Heise, J. Arthur, Ph.D. (Syracuse University), Professor and Dean, Journalism and Mass Communication

Herscovitz, Heloiza, Ph.D. (University of Florida), Assistant Professor, Journalism and Mass Communication

Kopenhaver, Lillian Lodge, Ed.D. (Nova Southeastern University), Professor and Associate Dean, Journalism and Mass Communication

Martinson, David L., Ph.D. (University of Minnesota), Professor, Journalism and Mass Communication

McQueen, Michael, M.A. (Florida Atlantic University), Associate Professor and Chairperson, Department of Journalism and Broadcasting, Journalism and Mass Communication

Ponte, Teresa, J.D. (Rutgers University School of Law), Associate Professor, Journalism and Mass Communication

Rose, Patricia, M.B.A. (University of Miami), Professor and Chairperson, Department of Advertising and Public Relations, Journalism and Mass Communication

Sinclair, Janas, Ph.D. (University of Florida), Assistant Professor, Journalism and Mass Communication

Sued, Don, Ph.D. (Southern Illinois University), Professor, Journalism and Mass Communication

Suris, Carlos, M.L.S. (University of South Florida), Director, Student Resource Center, Journalism and Mass Communication

Veraldi, Lorna, J.D. (New York School of Law), Associate Professor, Journalism and Mass Communication

Vignon, Mercedes, M.A. (University of Miami), Assistant Professor, Journalism and Mass Communication

Virtue, John, B.A. (Carleton University), Deputy Director, International Media Center
The Honors College

Ivelaw L. Griffith, Dean
Stephen M. Fjellman, Associate Dean
Caryl Myers Grof, Assistant Dean
John Kneski, Assistant Dean
Sharon Placide, Coordinator of Student Services

Talented students often are forced to choose between the exciting opportunities and challenges offered by large, research-oriented universities and the close, personal environment offered by small liberal arts colleges. FIU offers the best of both worlds. The Honors College is a small community of dedicated scholars—outstanding students and committed teachers—who work together in an atmosphere usually associated with small private colleges, but they do so with all of the resources of a major state university readily at hand.

The College provides an important foundation for students who want to get the most out of their undergraduate years. Transition into higher education is made easier by the student's immediate association with a small group of students and teachers with similar capabilities and aspirations. The undergraduate experience is significantly enhanced by the broad liberal arts focus of the curriculum and the opportunity to work closely with experienced faculty from the first day on campus; and the opportunities for graduate and professional study or employment are greatly expanded because of the range of activities and experiences made available to students in the College. The Honors College at FIU offers the very best in undergraduate education.

Location
The Honors College Program is available at both University Park and the Biscayne Bay Campus.

Admission Policy
Admission to The Honors College is selective and limited. Students are admitted only at the beginning of each academic year (fall term).

Freshmen: Students with a 3.5 overall high school GPA and commensurate scores on the SAT or ACT are eligible for admission to the College.

Transfer and Continuing FIU Students: Students who have maintained a 3.3 GPA in all college-level work are eligible for admission to the College. To be eligible for admission, students must have at least two full academic years remaining in their undergraduate programs.

Academic Policy
Students are required to maintain a cumulative 3.3 GPA for satisfactory standing in the Honors College.

Graduation Policy
Students are eligible for a transcript notation indicating that they "Graduated Through The Honors College" if they have completed with the following requirements:
1. met all other requirements for graduation from the University;
2. were continuously enrolled in honors seminars;
3. completed at least 12 credits of honors courses with no grade lower than "B;"
4. maintained an overall GPA of at least 3.3.

The Honors Curriculum
Students in the College possess dual academic citizenship. They pursue any major available in the University and at the same time complete the honors curriculum. In most cases, participation in the College does not increase the number of credits required for graduation. Each term through the third year, students enroll in one honors seminar that is designed to stimulate thoughtful discussion and creativity and to develop communication skills. Honors seminars are limited to a student/faculty ratio of 20:1 and are taught by some of the best teachers in the University. In the senior year, students may choose from several options including additional seminars, independent research, and foreign study.

Many classes are team-taught; all are interdisciplinary. Years I – II at University Park are structured similarly: all students and faculty at each level meet in a large group session one day a week for lectures, panel discussions, case studies, student presentations, etc.; the other class meeting each week is spent in small group preceptorials. At Biscayne Bay Campus, classes meet as individual seminars. Professors at both campuses meet with the same small group throughout the year. The third year provides a choice of individually taught seminars. The fourth year also provides independent classes with an emphasis on synthesizing the students’ experiences during the previous three years and on introducing the students to graduate level research activities.

The curriculum emphasizes the following activities:

- Critical, integrative, and creative thinking;
- Group and independent research;
- Oral presentation;
- Close contact between students and faculty;
- Integration of class work with the broader community.

Year One

IDH 1001, IDH 1002 The Origin of Ideas and the Idea of Origins (6). The course is designed to encourage students to become self-conscious learners, exploring not only the what, but also the how and why of knowing. The course focuses on the nature of truth and reality and our role in the world each of us has constructed.

Year Two

IDH 2003, IDH 2004 Inhabiting Other Lives (6). Exposes students to issues of human commonality and diversity, and invites them to investigate and to understand the interconnectedness of various cultures, times and life experiences.

Year Three

IDH 3005, IDH 3006 Aesthetics, Values, and Authority (6). Building on the investigations of the first two years, the third course examines the aesthetic underpinnings of culture and foundations of what commonly are held to be "western values." Discussions focus not only on these paradigms, but on the authority and power relationships that surround them.

Year Four

Prerequisites
1. admission to The Honors College;
2. 3.0 GPA in prior honors course work;
3. and a cumulative GPA of at least 3.3.

(These requirements may be appealed in writing to the Dean of the Honors College)

Option 1
IDH 4007, IDH 4008 Looking to the Future (6). Discussion of contemporary issues within the framework provided by the first three years of study.

Option 2
Departmental Honors Requirements—Honors course work or honors thesis opportunities offered by individual departments.

Option 3
Independent Study—Individual research projects under the direction of a faculty
member from the student’s major department;

**Option 4**

**Foreign Study**

Students may choose to complete the fourth year of the honors curriculum at one of the College’s summer study programs abroad. During the summer of 2002 programs are planned in Spain, Italy, and Jamaica.

**National Student Exchange**

This program enables students in the College to spend one semester or a full year at any one of more than 170 universities throughout the United States and its territories.

**The Honors College Society**

Open to all Honors College students, the Honors College Society moves the honors experience beyond the classroom by organizing social and cultural activities and community service projects. The Society plans picnics and parties and the annual honors awards night, and in recent years has coordinated volunteer activities with various local community-service groups.

**Mentoring**

For students in the College, the facilities and programs available at the University, extensive as they might be, are only the beginning. The faculty and staff of the College feel a personal responsibility to see that every student is aware of and prepared for the many fellowship and internship opportunities available to undergraduate students. It is not uncommon for Honors College students to be involved in some sort of funded off-campus activity during each summer of their undergraduate careers.

**Graduate and Professional School Placement**

The College provides placement assistance in two very important ways. The staff is knowledgeable and eager to help students find out about graduate and professional programs and the application process. More importantly, however, students who have completed the honors curriculum will have participated in a small seminar with a number of faculty members who will be able to offer guidance to the students and personal, detailed evaluation in support of their applications.

**Other Privileges**

Because of the special nature of their contribution to the university, Honors College students enjoy other privileges as well, including, priority registration, special dormitory facilities, opportunities for scholarships and fee waivers, and special recognition at commencement ceremonies.

**Pre-Collegiate Summer Institute**

The Summer Institute offers high school students the opportunity to attend college classes during the summer prior to their senior year. Acceptance into the Institute includes a scholarship for 6 credits, which covers tuition, registration fees, and textbooks. The Institute may enable students to graduate from college in under four years. Any credits earned will count toward graduation from FIU and are transferable to other universities. Students also may arrange to apply these credits toward high school graduation.

Students who successfully complete the Summer Institute are guaranteed priority consideration for admission into The Honors College.

**The Honors College Faculty**

Bailey, Regina, M.F.A. (Praut Institute), Associate Director, The Art Museum

Beesting, William, Ph.D. (Florida State University), Assistant Dean, Undergraduate Studies

Brown, Christopher, Ph.D. (University of Delaware), Professor, Biological Sciences

Carvajal, Manuel, Ph.D. (University of Florida), Professor, Economics

Castells, Ricardo, Ph.D. (Duke University), Associate Professor, Modern Languages

de Alonso, Irma, Ph.D. (University of York, England), Professor, Economics

DeFrancesco, Charmaine, Ph.D. (Florida State University), Associate Professor, Movement Science, Health, Physical Education & Recreation

Fjellman, Stephen, Ph.D. (Stanford University), Professor, Anthropology and Associate Dean, Honors College

Free, Mary, Ph.D. (University of Georgia), Associate Professor and Associate Chariperson, English

Gertsman, Bernard, Ph.D. (Princeton University), Professor, Physics

Griffith, Ivelaw, Professor and Dean, Honors College

Grof, Caryl, M.S. (Florida International University), Assistant Dean, Honors College

Hall, Kevin, (Fordham University), Editor In Residence, Journalism And Mass Communication

Harvey, Bruce, Ph.D. (Stanford University), Associate Professor, English

Hauptli, Bruce, Ph.D. (Washington University), Professor, Philosophy

Hoder-Salmon, Marilyn, Ph.D. (University of New Mexico), Associate Professor, English

Hogner, Robert, Ph.D. (University of Pittsburgh), Associate Professor, Marketing and Business Environment

Kneski, John, M., ArchII (Syracuse University), Assistant Dean, Honors College

Levine, Barry, Ph.D. (New School for Social Research), Professor, Sociology/Anthropology

Machonis, Peter, Ph.D. (Pennsylvania State University), Associate Professor, Modern Languages

Mandakovic, Tomislav, Ph.D. (University of Pittsburgh), Professor, Decision Sciences and Information Systems

Markowitz, Peter, Ph.D. (College of William & Mary), Assistant Professor, Physics

Maurrasse, Florentin, Ph.D. (Columbia University), Professor, Earth Sciences

Northup, Lesley, Ph.D. (Catholic University), Associate Professor, Religious Studies

O’Shea, Kevin E., Ph.D. (University of California-Los Angeles), Associate Professor, Chemistry

Pyron, Darden, Ph.D. (University of Virginia), Professor, History

Rochelson, Meri-Jane, Ph.D. (University of Chicago), Associate Professor, English

Tardanico, Richard, Ph.D. (Johns Hopkins University), Associate Professor, Sociology/Anthropology

Wagner, Michael J., Ph.D. (Florida State University), Professor, Music Education, School of Music
**Military Science**

Francisco Ascorbe, Professor and Chairperson, Military Science
Ken Merkel, Executive Officer
Wally Gallhart, Scholarship Enrollment Officer
Frank Coke, Assistant Professor
Dave Mount, Assistant Professor
Sharon Hobbs, Assistant Professor

The Army Reserve Officer Training Corps is a college elective that will help students succeed in their desired career, whether civilian or military. Students who complete all ROTC requirements may be commissioned second lieutenants and serve in the Army, Army National Guard or Army Reserve.

**Enrollment**

Open to full-time male and female students attending Florida International University.

**Instruction and Training**

Freshmen and sophomores take Basic Military Science Courses. There is no military obligation associated with the first two years of the program. These courses introduce students to skills taught at U.S. Army Basic Combat Training. These include rappelling, patrolling, weapons handling and firing, map reading, first aid and many others. Courses consist of outdoor/indoor instruction and practical ‘hands-on’ training on university intramural fields and South Florida military sites. Juniors and seniors continue to use these ‘hands-on’ techniques while developing leadership skills. As upperclassmen they will have opportunities to teach underclassmen.

**Scholarships**

Army ROTC offers a number of scholarships that pay tuition and fees, an allowance for books and stipends to be used as spending money.

**Organizations**

Ranger Challenge - A physically demanding course designed to prepare cadets for area and regional competition against other ROTC units. Cadets train weekly to perfect skills in weapons handling and assembly, marksmanship, orienteering, hand grenade throwing, physical fitness, combat patrolling and combat load roadmarching.

Scabbard and Blade - An honor society for outstanding cadets selected for membership by their peers for academic and military excellence.

**Color Guard** - An elite organization of cadets skilled in marching and drill and ceremony. Members post the colors at Golden Panther basketball games, baseball games, football games, civic/veteran events and campus functions.

**Association of the U.S. Army** - A fraternal organization chartered by the national association to perpetuate the ideals of the U.S. Army.

**Special Programs**

Students unable to participate in ROTC during their freshman and sophomore years may qualify for admission to advanced ROTC (junior and senior years) by attending a four-week course at Ft. Knox, KY. Attendees receive pay, travel costs, lodging and food.

Students who want to pursue an advanced degree in certain fields after receiving a baccalaureate may qualify for delayed entry on active duty.

Students interested in pursuing civilian careers after graduation may apply for duty in the National Guard or Reserve.

Students can enter into the Simultaneous Membership Program (SMP). This allows students to earn valuable experience by serving in the Army National Guard or Army Reserves while enrolled in ROTC. Students continue their regular school curriculum and are protected from deployment while assigned to a National Guard or Reserve unit.

Students receive additional financial support from the National Guard or Reserves as an incentive to serve as officers upon graduation and commissioning.

**Special Training**

Outstanding cadets may qualify to attend special Army schools such as Mountain Warfare Training, Northern Warfare School, Air Assault School or Airborne School. Selection is on a competitive basis.

Cadets receive uniforms, shoes, boots and other equipment necessary for training. Outstanding cadets are honored at frequent award ceremonies. Scholarship cadets can fly space-available aboard military aircraft. Once commissioned, second lieutenants earn about $35,000 a year in the Army as a starting salary, or about $3,500 per year in the National Guard or Reserve.

**Course Descriptions**

**MIS 1002 First Year Basic (2).** An orientation of the ROTC program and its objectives; the role and organization of the Army; the fundamentals of leadership and management; leadership development.

**MIS 1300 First Year Basic (2).** Basic operations and tactics of Infantry and Mechanized Infantry at small unit level; military principles of war.

**MIS 2106 Second Year Basic (2) MIS 2106L.** Second Year Basic Laboratory (0). Basic military skills in radio communication procedures; US and opposing forces Armor and Anti-Armor capabilities; security and intelligence reporting; nuclear, biological, and chemical battlefield; US Artillery weapons; and basic first aid. Required laboratory, field training, and/or activity module participation.

**MIS 2333 Second Year Basic (2) MIS 2333L.** Second Year Basic Laboratory (0). Map reading skills, determining distance, direction, and location; analysis of terrain; and indirect fires. Required Laboratory, Field Training, and/or Activity Module.

**MIS 3310 Advanced Military Science III (3).** MIS 3310L. Advanced Military Science III Laboratory (0). Advanced leadership and troop command procedures; small unit tactics and communications; map and compass skill; patrolling, tactical operations. Required Leadership Laboratory. Prerequisite: Permission of the PMS.

**MIS 3423 Advanced Military Science III (3).** MIS 3423L. Advanced Military Science III Laboratory (0). Management and leadership; case studies in fact finding, decision making, planning, delegation, and interpersonal skills; motivation training with emphasis on crisis-oriented organizations. Required Laboratory. Prerequisite: Permission of the PMS.

**MIS 4120 Advanced Military Science IV (3).** Ethics and professionalism; responsibilities of the military officer; the military law and justice system; the laws of war. Prerequisite: Permission of the PMS.

**MIS 4410 Advanced Military Science IV (3).** Applied leadership techniques in counseling subordinates; written and oral communications; the command, staff, personnel, logistics, and training
management systems; the role of NCO's.

MIS 4411 Studies in Military History (1-3). Examines the Military Heritage of the U.S. from the colonial wars to the present; focuses on the operational and strategic levels of warfare. Writing requirement for the 3-hour course.

MIS 4905 Studies in Military History (1-3). Supervised readings and independent study in Military History. Prerequisite: Permission of the instructor.
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